

CONSOLIDATED COMMISSION ON UTILITIES

Guam Power Authority | Guam Waterworks Authority P.O. Box 2977 Hagatna, Guam 96932 | (671)649-3002 | guamccu.org

GUAM POWER AUTHORITY WORK SESSION CCU Conference Room 4:30 p.m., November 21, 2017

AGENDA

- 1. ISSUES FOR DECISION
 - 1.1 Tristar Doc Pipeline & RFO Storage Extension / Resolution 2017-43
 - 1.2 Bond Refinancing / Resolution 2017-44
 - 1.3 GPWA Customer Care & Billing Update / Resolution 2017-45 (GWA Resolution 08-FY2018)
- 2. GM REPORT
 - 2.1 Updates

3. ISSUES FOR DISCUSSION

- 3.1 LEAC Filing 12/15/17
- 3.2 Transmission & Distribution Grid Improvement Programs

4. DIVISION REPORTS

- 3.1 Administration: Customer Service, HR, Procurement
- 3.2 Engineering & Technical: Engineering, IT, Planning & Regulatory, SPORD
- 3.3 Finance Reports
- 3.4 Operations: Facilities, Generation, PSCC, T&D, Transportation
- 3.5 Public Information Office

4. ANNOUNCEMENTS

- 4.1 Next Meeting: CCU Meeting November 22
- 5. ADJOURNMENT



Issues for Decision

GPA Resolution No. 2017-43

AUTHORIZING THE MANAGEMENT OF THE GUAM POWER AUTHORITY TO ENTER INTO AN AGREEMENT EXTENSION TERM WITH TRISTAR TERMINALS GUAM, INC. FOR THE DOCK FACILITY, PIPELINE FACILITIES AND RFO STORAGE

What is the project's objective? Is it necessary and urgent?

The Guam Power Authority ("GPA" or "Authority") utilizes the services of Tristar Terminals Guam, Inc.("Tristar" or "TTGI") pier facility for the docking of ocean freight vessels delivering fuel to GPA facilities through a Dock Facility User Agreement.

GPA utilizes the Tristar fuel pipeline facilities for the delivery and transport of Fuel Oil to and from GPA's fuel storage facilities through a Pipeline Agreement.

GPA utilizes the Tristar fuel storage facilities for GPA's additional RFO storage requirements through a RFO Storage Lease Agreement.

TTGI is the sole service provider for the Dock Facility User Agreement, Pipeline Agreement, and RFO Storage Lease Agreement (or "3 Agreements"). The current contracts for the 3 Agreements will expire on August 31, 2018.

How much will it cost?

The fee schedules for the Pipeline Agreement and RFO Storage Lease Agreement for the 4 year extension period will be at the same annual incremental rate of 4% based on standard Consumer Price Index changes and increased operational cost; and

The estimated total expenses for the 3 Agreements for the 4-year extension period as shown in Exhibit A are as follows: \$6,324,864 for the Dock Agreement; \$2,138,024 for the Pipeline Agreement; and \$6,674,891 for the RFO Storage Agreement.

When will it be completed?

GPA and TTGI have negotiated for an extension of the 3 Agreements for up to 4 years, renewable annually. The Dock Agreement fee schedule shall remain the same until March 31, 2019.

Extension of the Agreement and the fee schedule thereof is subject to change and is incumbent upon Tristar's contract renewal with the Port Authority of Guam (PAG) beyond March 31, 2019.

What is its funding source?

LEAC

EXHIBIT A

Fee Schedule	Parameters			Contract Extensio				
						Sep2018-Aug202	22	
						Annual		4-Year Total
A. Dock Agreement				\$/Shipment		<u>\$/yr</u>		<u>\$</u>
1. Dock Operator O.T. Fee	Outside 0800H-1600H on Weekdays		per manhour	\$7,296.00		\$80,256.00		\$321,024.00
(Minimum of 4 Operators)	All hrs on w eedays & holidays		hrs/shipment					
		11	ships/yr					
2. Excess Laytime	0-36 hrs upon start of dicharge	\$0.00	per Hour					
j.	Over 36 hrs & less than 72 hrs	\$1,000.00						
	Over 72 hrs	. ,	per Hour					
	Excess hrs	12	hrs/shipment	\$12,000.00		\$132,000.00		\$528,000.00
		11	shipment/yr					
3. Imports (RFO Receiving)								
a. Thoughput Fee	RFO received (Gross) - PAG Fee	\$0.50	\$/bbl	\$120.000.00		\$1,320,000.00		\$5,280,000.00
u. moughput ree			bbl/shipment	φ120,000.00		ψ1,020,000.00		ψ0,200,000.00
			shipment/yr					
4. Exports (Bunkering)			bbl/shipment					
a. Port Royalty Fee			shipment/yr \$/bbl	\$1,980.00		\$47,520.00		\$190,080.00
b. Maritime Security Fee	RFO delivered (Gross) - PAG fee RFO delivered (Gross) - PAG Fee		\$/bbl	\$1,980.00		\$47,520.00		\$190,080.00
D. Manume Security ree	RFO delivered (Gross) - FAG Fee	φ0.02	וטטיק	φ00.00		φ1,440.00		φ3,700.00
SUB-TOTAL			1	\$141,336.00		\$1,581,216.00		\$6,324,864.00
B. Pipeline Agreement						Annual		4-Year Total
1. Pipeline Rental (B-Line)	Pipeline from Dock to Navy tie-in			<u>\$/Month</u>		<u>\$/yr</u>		<u>\$</u>
Sep 2018- Aug 2019				\$41,956.95		\$503,483.39	4%	
Sep 2019- Aug 2020				\$43,635.23		\$523,622.72	4%	
Sep 2020- Aug 2021				\$45,380.64		\$544,567.63	4%	
Sep 2021- Aug 2022 SUB-TOTAL				\$47,195.86		\$566,350.34 \$524,500,00	4%	¢0.400.004.00
C. Storage Agreement	Read contracted storage conseits		[\$44,542.17	avg	\$534,506.02 Annual	avg	\$2,138,024.08 4-Year Total
1. Fixed Lease Fees	Based contracted storage capacity Tk1902	0	bbls	\$/Month*		\$/yr		4-real rotar \$
Sep 2018- Aug 2019	Tk1902	278,500		\$107,251.80		\$1,287,021.64	10/	<u>v</u>
Sep 2019- Aug 2019	Tk1905	,	bbls	\$111,541.88		\$1,338,502.50		
Sep 2019- Aug 2020	Tk1910	37,000		\$116,003.55		\$1,392,042.60		
Sep 2020- Aug 2021	*Total storage capacity	315,500		\$120,643.69		\$1,447,724.30		\$5,465,291.04
				,,		, ., , 		, .,,=001
2. Bunkering Fee	(P/L fee from tanks to navy tie-in)							
	RFO delivered (Net)	\$4.20	\$/bbl	\$12,600.00		<u>\$302,400.00</u>		\$1,209,600.00
SUB-TOTAL				\$93,608.18	avg	\$1,153,538.21	avg	\$6,674,891.04
				\$279,486.35	avg	\$3,269,260.23	avo	\$15,137,779.12
				\$/Month		\$/yr	9	Total for 4 Yrs



CONSOLIDATED COMMISSION ON UTILITIES Guam Power Authority | Guam Waterworks Authority P.O. Box 2977 Hagatna, Guam 96932 | (671)649-3002 | guamccu.org

1	RESOLUTION NO. 2017-43
2	
3	AUTHORIZING THE MANAGEMENT OF THE GUAM POWER AUTHORITY (GPA)
4	TO ENTER INTO AN AGREEMENT EXTENSION TERM WITH TRISTAR TERMINALS GUAM, INC. FOR THE
5	DOCK FACILITY, PIPELINE FACILITIES AND RFO STORAGE
6	
7	WHEREAS, the Guam Power Authority ("GPA" or "Authority") utilizes the services of Tristar Terminals
8	Guam, Inc.("Tristar" or "TTGI") pier facility for the docking of ocean freight vessels delivering fuel to GPA
9	facilities through a Dock Facility User Agreement ; and
10	
11	WHEREAS, GPA utilizes the Tristar fuel pipeline facilities for the delivery and transport of Fuel Oil to
12	and from GPA's fuel storage facilities through a Pipeline Agreement; and
13	
14	WHEREAS, GPA utilizes the Tristar fuel storage facilities for GPA's additional RFO storage
15	requirements through a RFO Storage Lease Agreement ; and
16	
17 18	WHEREAS, TTGI is the sole service provider for the Dock Facility User Agreement, Pipeline Agreement, and RFO Storage Lease Agreement (or "3 Agreements"); and
	Agreement, and the Storage Lease Agreement (of S Agreements), and
19	
20	WHEREAS, the current contracts for the 3 Agreements will expire on August 31, 2018; and
21	
22	WHEREAS, GPA and TTGI have negotiated for an extension of the 3 Agreements for up to 4 years,
23	renewable annually; and
24	
25	WHEREAS, the Dock Agreement fee schedule shall remain the same until March 31, 2019. Extension of
2 <i>3</i> 26	the Agreement and the fee schedule thereof is subject to change and is incumbent upon Tristar's contract
27	renewal with the Port Authority of Guam (PAG) beyond March 31, 2019; and
28	
29	WHEREAS, the fee schedules for the Pipeline Agreement and RFO Storage Lease Agreement for the 4
29 30	year extension period will be at the same annual incremental rate of 4% based on standard Consumer
31	Price Index changes and increased operational cost; and
32	
	WHEREAS, the estimated total expenses for the 3 Agreements for the 4-year extension period as
33 34	shown in Exhibit A are as follows: \$6,324,864 for the Dock Agreement; \$2,138,024 for the Pipeline
35	Agreement; and \$6,674,891 for the RFO Storage Agreement; and
36	
	WITEDEAS TTOL is the colo convice provider for the 2 Assessments and
37	WHEREAS, TTGI is the sole service provider for the 3 Agreements; and

38	
39 40 41	WHEREAS, GPA has determined that the contract extension period for the 3 Agreements will serve the best interest of the Authority and its ratepayers by ensuring uninterrupted supply of fuel to GPA through the use of Tristar's fuel handling facilities; and
42	
43 44 45	WHEREAS, GPA is requesting the approval of the CCU for the Dock Facility User Agreement, Pipeline Agreement, and RFO Storage Lease Agreement for up to four (4) years to commence on September, 2018; and
46	
47	NOW THEREFORE, BE IT RESOLVED, by the Consolidated Commission on Utilities, subject to the review
48	and approval of the Public Utilities Commission, as follows:
49	
50	The General Manager of GPA is authorized to petition the Guam Public Utilities Commission for the
51 52	review and approval of the extension of the Dock Facility User Agreement, Pipeline Agreement, and Storage Lease Agreement with Tristar Terminal Guam, Inc.
52 53	Storage Lease Agreement with tristar reminar Guain, inc.
54	RESOLVED , that the Chairman of the Commission certifies and the Secretary of the Commission attests
55	the adoption of this Resolution.
56	
57	DULY and REGULARLY ADOPTED this 22 nd day of November 2017
58	
59	Cartified by
	Certified by: Attested by:

JOSEPH T. DUENAS CHAIRMAN

J. GEORGE BAMBA SECRETARY

60	
61 62	I, J. GEORGE BAMBA, Secretary for the Consolidated Commission on Utilities do hereby certify that the
63	foregoing is a full, true, and correct copy of the resolution duly adopted at a regular meeting of the members
64	of Guam's Consolidated Commission on Utilities, duly and legally held at a place properly noticed and
65	advertised at which meeting a quorum was present and the members who were present voted as follows:
66 67 68	Ayes:
69 70	Nays:
71 72	Absent:
72 73	Abstain:

EXHIBIT A

TRISTAR AGREEMENTS - Es	timated Expenses							
	Parameters				-	Contract Exten	sion	
Fee Schedule						Sep2018-Aug202		
						Annual		4-Year Total
A. Dock Agreement				\$/Shipment		<u>\$/yr</u>		<u>\$</u>
1. Dock Operator O.T. Fee	Outside 0800H-1600H on Weekdays	\$38.00	per manhour	\$7,296.00		\$80,256.00		\$321,024.00
(Minimum of 4 Operators)	All hrs on weedays & holidays	48	hrs/shipment					
		11	ships/yr					
2. Excess Laytime	0-36 hrs upon start of dicharge	\$0.00	per Hour					
,	Over 36 hrs & less than 72 hrs	\$1,000.00	per Hour					
	Over 72 hrs		per Hour					
	Excess hrs	12	hrs/shipment	\$12,000.00		\$132,000.00		\$528,000.00
		11	shipment/yr					
3. Imports (RFO Receiving)								
a. Thoughput Fee	RFO received (Gross) - PAG Fee	¢0 50	\$/bbl	\$120,000.00		\$1,320,000.00		\$5,280,000.00
a. moughput ree	RFO Tecelved (Gloss) - PAG Fee		bbl/shipment	φ120,000.00		\$1,320,000.00		φ <u></u> 5,200,000.00
			shipment/yr					
			Shiphenvyi					
4. Exports (Bunkering)		3000	bbl/shipment					
			shipment/yr					
a. Port Royalty Fee	RFO delivered (Gross) - PAG fee		\$/bbl	\$1,980.00		\$47,520.00		\$190,080.00
b. Maritime Security Fee	RFO delivered (Gross) - PAG Fee	\$0.02	\$/bbl	\$60.00		\$1,440.00		\$5,760.00
SUB-TOTAL				\$141,336.00		\$1,581,216.00		\$6,324,864.00
B. Pipeline Agreement						Annual		4-Year Total
1. Pipeline Rental (B-Line)	Pipeline from Dock to Navy tie-in			\$/Month		\$/yr		<u>\$</u>
Sep 2018- Aug 2019				\$41,956.95		\$503,483.39	4%	
Sep 2019- Aug 2020				\$43,635.23		\$523,622.72	4%	
Sep 2020- Aug 2021				\$45,380.64		\$544,567.63	4%	
Sep 2021- Aug 2022				\$47,195.86		<u>\$566,350.34</u>	4%	
SUB-TOTAL				\$44,542.17	avg	\$534,506.02	avg	\$2,138,024.08
C. Storage Agreement	Based contracted storage capacity					Annual		4-Year Total
1. Fixed Lease Fees	Tk1902		bbls	<u>\$/Month*</u>		<u>\$/yr</u>		<u>\$</u>
Sep 2018- Aug 2019	Tk1903	278,500		\$107,251.80		\$1,287,021.64		
Sep 2019- Aug 2020	Tk1910		bbls	\$111,541.88		\$1,338,502.50		
Sep 2020- Aug 2021	Tk1911	<u>37,000</u>		\$116,003.55		\$1,392,042.60		*= 40 = 004 04
Sep 2021- Aug 2022	*Total storage capacity	315,500	bbis	\$120,643.69		\$1,447,724.30	4%	\$5,465,291.04
2. Bunkering Fee	(P/L fee from tanks to navy tie-in)							
	RFO delivered (Net)	\$4.20	\$/bbl	<u>\$12,600.00</u>		<u>\$302,400.00</u>		<u>\$1,209,600.00</u>
SUB-TOTAL			1	\$93,608.18	avg	\$1,153,538.21	avg	\$6,674,891.04
					avg	\$3,269,260.23	avg	
				\$/Month		\$/yr		Total for 4 Yrs

EXHIBIT B

		Current Contro of	Contro at Exte			
Fee Schedule		Current Contract 5 Years	Contract Extn 4 Years	Variance/	Rema	arks
			Sep2018-Aug2022	vananoo,		
A. Dock Agreement Fees Effective until March 31, 2019						- 4 4
rees Ellective until March 31, 2019				Subject to Port Fee	e Adju	stments
1. Dock Operator O.T. Fee per Operator	por Hour	\$38.00	\$38.00	\$0.00	Noo	hango
(Minimum of 4 Operators)	per Hour	\$38.00	\$38.00	\$0.00	NUC	nange
Outside 0800H-1600H on Weekdays						
All hrs on weedays & holidays						
Air fil's off weedays & holidays						
2. Excess Laytime	per Hour	\$0.00	\$0.00	\$0.00	Noc	hande
0-36 hrs upon start of dicharge	per Hour	\$1,000.00	\$1,000.00	\$0.00		
Over 36 hrs & less than 72 hrs	per Hour	\$600.00	\$600.00	\$0.00		
Over 72 hrs	per noui	\$000.00	\$000.00	\$0.00	NUC	nange
0101721113						
3. Imports (RFO Receiving)						
a. Thoughput Fee	\$/bbl	\$0.50	\$0.50	\$0.00	Nore	hange
(RFO delivered-Gross)	φ, δ.δ.	\$0.00	ψ0.00	ψ0.00		. ange
4. Exports (Bunkering)						
(RFO delivered-Gross)						
a. Port Royalty Fee	\$/bbl	\$0.66	\$0.66	\$0.00	No.c	hange
b. Maritime Security Fee	\$/bbl	\$0.02	\$0.02			hange
b. Mantime Security Fee	φ/υυι	\$0.0Z	φ0.02	\$0.00	NUC	nange
8. Pipeline Agreement						
s. Fipenne Agreement						
. Pipeline Rental Fee				(Pipeline from Doc	k to Ni	way tio
<u>5-Year Agreement</u>				(Fipeline from Doc	K LU IN	avy lie-i
	¢ h cr	¢410 100 50				
Sep 2013- Aug 2014	\$/yr	\$418,182.53			40/	
Sep 2014- Aug 2015	\$/yr	\$433,709.83				Increas
Sep 2015- Aug 2016	\$/yr	\$449,858.22				Increas
Sep 2016- Aug 2017	\$/yr	\$466,652.55				Increas
Sep 2017- Aug 2018	\$/yr	<u>\$484,118.65</u>			4%	Increas
Total (5-Years)		\$2,252,521.78				
4-Year Extension						
Sep 2018- Aug 2019	¢hur		¢502 492 20		4.0/	haraa
Sep 2019- Aug 2019 Sep 2019- Aug 2020	\$/yr		\$503,483.39 \$523,622.72			Increas
Sep 2019- Aug 2020 Sep 2020- Aug 2021	\$/yr		\$544,567.63			Increas
Sep 2020- Aug 2021 Sep 2021- Aug 2022	\$/yr		<u>\$566,350.34</u>			
	\$/yr				4%	Increas
Total (4-Year Extn)			\$2,138,024.08			
. Storage Agreement						
1. Lease Fees						
<u>5-Year Agreement</u>				Contract Capacity	(bbls)	422 14
Sep 2013- Aug 2014	\$/yr	\$1,413,023.47		contract cupacity	(553)	F22, IX
Sep 2013- Aug 2014 Sep 2014- Aug 2015	\$/yr	\$1,469,544.41			⊿%	Increas
Sep 2015- Aug 2016	\$/yr	\$1,528,326.18				Increas
Sep 2015- Aug 2016 Sep 2016- Aug 2017	\$/yr	\$1,589,459.23				Increas
Sep 2017- Aug 2017	\$/yr	\$1,653,037.60				Increas
Total (5-Years)	φ/yi	\$7,653,390.89			4 70	Increas
		φ1,000,090.09				
4-Year Extension				Contract Capacity	(bble)	315 5
Sep 2018- Aug 2019	\$/yr		\$1,287,021.64	contract capacity		Increas
Sep 2019- Aug 2019 Sep 2019- Aug 2020	-					
Sep 2019- Aug 2020 Sep 2020- Aug 2021	\$/yr \$/yr		\$1,338,502.50 \$1,302,042,60			Increas
	\$/yr		\$1,392,042.60			Increas
Sep 2021- Aug 2022	\$/yr		<u>\$1,447,724.30</u>		4%	Increas
Total (4-Year Extn)			\$5,465,291.04			
2 Dunkaring Eac						
2. Bunkering Fee						
(P/L Fee from storage to navy tie-in)						
(RFO delivered-Net)	¢ /L L I	¢4.00	¢4.00	#0.00	Nic -	hor -
	\$/bbl	\$4.20	\$4.20	\$0.00	INO C	nange

TRISTAR AGREEMENTS - Fee Comparison

Fee Schedule		Current Contract 5 Years	Contract Extn 4 Years	Variance/Remarks		
	l –	Sep2013-Aug2018	Sep2018-Aug2022			
A. Dock Agreement Fees Effective until March 31, 2019				Subject to Port Fee Adjustments		
1. Dock Operator O.T. Fee per Operator (Minimum of 4 Operators) Outside 0800H-1600H on Weekdays All hrs on weedays & holidays	per Hour	\$38.00	\$38.00	\$0.00 No change		
2. Excess Laytime	per Hour	\$0.00	\$0.00	\$0.00 No change		
0-36 hrs upon start of dicharge	per Hour	\$1,000.00	\$1,000.00	\$0.00 No change		
Over 36 hrs & less than 72 hrs Over 72 hrs	per Hour	\$600.00	\$600.00	\$0.00 No change		
3. Imports (RFO Receiving)						
a. Thoughput Fee	\$/bbl	\$0.50	\$0.50	\$0.00 No change		
(RFO delivered-Gross)						
 Exports (Bunkering) (RFO delivered-Gross) 						
a. Port Royalty Fee	\$/bbl	\$0.66	\$0.66	\$0.00 No change		
b. Maritime Security Fee	\$/bbl	\$0.02	\$0.02	\$0.00 No change		
3. Pipeline Agreement						
I. Pipeline Rental Fee				(Pipeline from Dock to Navy tie-in		
5-Year Agreement Sep 2013- Aug 2014	\$/yr	\$418,182.53				
Sep 2014- Aug 2015	\$/yr	\$433,709.83		4% Increase		
Sep 2015- Aug 2016	\$/yr	\$449,858.22		4% Increase		
Sep 2016- Aug 2017	\$/yr	\$466,652.55		4% Increase		
Sep 2017- Aug 2018	\$/yr	\$484,118.65		4% Increase		
Total (5-Years)		\$2,252,521.78				
4-Year Extension Sep 2018- Aug 2019	\$/yr		\$503,483.39	4% Increase		
Sep 2019- Aug 2020	\$/yr		\$523,622.72	4% Increase		
Sep 2020- Aug 2021	\$/yr		\$544,567.63	4% Increase		
Sep 2021- Aug 2022	\$/yr		\$566,350.34	4% Increase		
Total (4-Year Extn)			\$2,138,024.08			
2. Storage Agreement 1. Lease Fees						
5-Year Agreement				Contract Capacity (bbls) 422,15		
Sep 2013- Aug 2014	\$/yr	\$1,413,023.47				
Sep 2014- Aug 2015	\$/yr	\$1,469,544.41		4% Increas		
Sep 2015- Aug 2016 Sep 2016- Aug 2017	\$/yr \$/yr	\$1,528,326.18 \$1,589,459.23		4% Increas		
Sep 2017- Aug 2018	\$/yr	\$1,653,037.60		4% Increas		
Total (5-Years)	<i>¢, y</i> .	\$7,653,390.89		478 1101000		
4-Year Extension				Contract Capacity (bbls) 315,50		
Sep 2018- Aug 2019	\$/yr		\$1,287,021.64	4% Increase		
Sep 2019- Aug 2020	\$/yr		\$1,338,502.50	4% Increas		
Sep 2020- Aug 2021	\$/yr		\$1,392,042.60	4% Increas		
Sep 2021- Aug 2022 Total (4-Year Extn)	\$/yr		\$5,465,291.04	4% Increas		
2. Bunkering Fee						
(P/L Fee from storage to navy tie-in)						
(RFO delivered-Net)						
	\$/bbl	\$4.20	\$4.20	\$0.00 No change		

AMENDED NO. 1 DOCK AGREEMENT

This Amendment No. 1 to the Storage Agreement ("1st Amendment") is made by and between **TRISTAR TERMINALS GUAM, INC.("Tristar")**, a Guam corporation whose address is P.O. Box 8210, Agat, Guam 96918, and **GUAM POWER AUTHORITY**, a public corporation of Guam, whose address is P.O. Box 2977, Hagatna, Guam 96932.

WHEREAS, a Dock Agreement with the reference "TTGI-DA-2013" between the parties dated 1st September, 2013 expires on 31st August, 2018, and the parties want to extend and continue the said Agreement.

NOW, THEREFORE, the parties agree:

- 1. The said Agreement is extended on a year-to-year basis upon expiration of the original term on August 31, 2018 for a period not exceeding four (4) successive yearly extensions.
- 2. The extension is further subject to Tristar being the authorized operator of the F1-Dock post the expiration of the current agreement with Port Authority of Guam on 31st March, 2019.
- 3. Except as stated herein all other terms and condition of the Dock Agreement and Amendments thereto shall remain in effect.

TRISTAR TERMINALS GUAM, INC.	GUAM POWER AUTHORITY
By:	By:
Name:	Name:
Title:	Title:
Date:	Date:

AMENDED NO. 1 PIPELINE AGREEMENT

This Amendment No. 1 to the Storage Agreement ("1st Amendment") is made by and between **TRISTAR TERMINALS GUAM, INC.**, a Guam corporation whose address is P.O. Box 8210, Agat, Guam 96918, and **GUAM POWER AUTHORITY**, a public corporation of Guam, whose address is P.O. Box 2977, Hagatna, Guam 96932.

WHEREAS, a Pipeline Agreement with the reference "TTGI-PA-2013" between the parties dated 1st September, 2013 expires on 31st August, 2018, and the parties want to extend and continue the said Agreement.

NOW, THEREFORE, the parties agree:

- 1. The said Agreement is extended on a year-to-year basis upon expiration of the original term on August 31, 2018 for a period not exceeding four (4) successive yearly extensions.
- 2. The storage fee for the extended period will be:

Extended Period Year	Period	Monthly Fee	Annual Fee			
1	September 2018 - August 2019	\$ 41,956.95	\$ 503,483.39			
2	September 2019 - August 2020	\$ 43,635.23	\$ 523,622.72			
3	September 2020 - August 2021	\$ 45,380.64	\$ 544,567.63			
4	September 2021 - August 2022	\$ 47,195.86	\$ 566,350.34			

3. Except as stated herein all other terms and condition of the Pipeline Agreement and Amendments thereto shall remain in effect.

TRISTAR TERMINALS GUAM, INC.

GUAM POWER AUTHORITY

By:	By:
Name:	Name:
Title:	Title:
Date:	Date:

AMENDED NO. 1 STORAGE AGREEMENT

This Amendment No. 1 to the Storage Agreement ("1st Amendment") is made by and between **TRISTAR TERMINALS GUAM, INC.**, a Guam corporation whose address is P.O. Box 8210, Agat, Guam 96918, and **GUAM POWER AUTHORITY**, a public corporation of Guam, whose address is P.O. Box 2977, Hagatna, Guam 96932.

WHEREAS, a Storage Agreement with the reference "TTGI-SA-2013" between the parties dated 1st September, 2013 expires on 31st August, 2018, and the parties want to extend and continue the said Agreement.

NOW, THEREFORE, the parties agree:

- 1. The said Agreement is extended on a year-to-year basis upon expiration of the original term on August 31, 2018 for a period not exceeding four (4) successive yearly extensions.
- 2. The storage fee for the extended period will be:

Extended Period Year	Period	Monthly Fee	Annual Fee
1	September 2018 - August 2019	\$ 107,251.80	\$ 1,287,021.64
2	September 2019 - August 2020	\$ 111,541.88	\$ 1,338,502.50
3	September 2020 - August 2021	\$ 116,003.55	\$ 1,392,042.60
4	September 2021 - August 2022	\$ 120,643.69	\$ 1,447,724.30

3. Except as stated herein all other terms and condition of the Storage Agreement and Amendments thereto shall remain in effect.

TRISTAR TERMINALS GUAM, INC.

GUAM POWER AUTHORITY

By:	By:
Name:	Name:
Title:	Title:
Date:	Date:

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2010 Bond Refunding

11-22-2017

Consolidated Commission on Utilities





Summary

- Net PV Saving of \$6.74 million, annual debt payment savings of around \$463,000 a year
- Present value savings of over 4.48%
- New Bond Par Amount \$149,270,000
- Par amount of refunded bond \$150,440,000
- Cost of issuance \$2.98 million
- Refunding to be done in December 2017







Issues for Decision

Resolution No. 2017-44:

Relative to Authorizing the Approval of a Bond Issuance to Refinancing Portion of the 2010 Revenue Bond

What is the project's objective? Is it necessary and urgent?

GPA has been pursuing strategies for reducing debt service payments. One strategy that has emerged as a result of historically low interest rates has been the concept of refunding portion of GPA's 2010 Series A revenue bonds for interest rate savings.

GPA expects that opportunities will arise from time to time to refund all or a portion of its other then outstanding revenue bonds for debt service savings, which is expected to result in potential savings to ratepayers. Low interest rate warrants action from the CCU.

After several months of reviewing this strategy with Barclays, GPA Bond Counsel, and GEDA, GPA believes this strategy provides significant benefit for GPA ratepayers. This transaction will need the approval of the Guam Legislature, GEDA, the PUC, and the Governor. The CCU desires to pursue this plan for refinancing of GPA's debt service costs in order to provide a net present value savings to ratepayers.

The present value of debt service on the refunding bonds shall be at least two percent (2%) less than the present value of debt service on the prior bonds, using the yield on the refunding bonds as the discount rate.

The projected NPV savings from refinancing 2010 Series A revenue bonds is \$6.74 million or 4.48% NPV savings.



CONSOLIDATED COMMISSION ON UTILITIES Guam Power Authority | Guam Waterworks Authority P.O. Box 2977 Hagatna, Guam 96932 | (671)649-3002 | guamccu.org

GUAM CONSOLIDATED COMMISSION ON UTILITIES RESOLUTION NO. 2017-44

RELATIVE TO AUTHORIZING THE APPROVAL OF A BOND ISSUANCE TO REFINANCE PORTION OF THE 2010 REVENUE BOND.

WHEREAS, the Consolidated Commission on Utilities is the governing body of the Guam Power Authority ("GPA"); and

WHEREAS, GPA has been pursuing strategies for reducing debt service payments; and

WHEREAS, one strategy that has emerged as a result of historically low interest rates has been the concept of refunding all of GPA's outstanding 2010 Series A revenue bonds for interest rate savings; and

WHEREAS, the projected NPV savings from refinancing 2010 Series A revenue bonds is \$6.74 million or 4.48% NPV savings; and

WHEREAS, GPA expects that opportunities will arise from time to time to refund all or a portion of its other then outstanding revenue bonds for debt service savings, which is expected to result in potential savings to ratepayers; and

WHEREAS, low interest rate warrants action from the CCU; and

WHEREAS, after several months of reviewing this strategy with Barclays, GPA Bond Counsel, and GEDA, GPA believes this strategy has potential for providing significant benefit for GPA ratepayers; and

WHEREAS, this transaction will still need the approval of the Guam Legislature, GED, the PUC, and the Governor; and

WHEREAS, the CCU desires to pursue this plan for refund GPA's debt service costs in order to provide a net present value savings to ratepayers; and

WHEREAS, the present value of debt service on the refunding bonds shall be at least two percent (2%) less than the present value of debt service on the prior bonds, using the yield on the refunding bonds as the discount rate; and

NOW THEREFORE, BE IT RESOLVED BY THE CONSOLIDATED COMMISSION ON UTLITIES, AS THE GOVERNING BODY OF THE GUAM POWER AUTHORITY, AS FOLLOWS:

1. The General Manager is authorized to proceed forward with the refund of outstanding revenue bonds.

- 2. The General Manager is authorized to petition the Public Utilities Commission for authorization to complete the bond refunding initiative.
- **3.** The General Manager is authorized to submit the proposed bond refinancing legislation (see attached) to the Guam Legislature.
- **4.** The General Manager is authorized to seek approval to GEDA to proceed with the proposed bond refunding.

RESOLVED, that the Chairman of the Commission certifies and the Secretary of the Commission attests the adoption of this Resolution.

DULY AND REGULARLY ADOPTED AND APPROVED THIS 22ND DAY OF NOVERMBER, 2017.

Attested by:

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65 JOSEPH T. DUENAS
66 CHAIRMAN

J. GEORGE BAMBA SECRETARY

I, **J**. **George Bamba**, Secretary for the Consolidated Commission on Utilities (CCU), as evidenced by my signature above do hereby certifies as follows:

The foregoing is a full, true, and correct copy of a resolution duly adopted at a regular meeting of the members of Guam Consolidated Commission on Utilities, duly and legally held at a place properly noticed and advertised at which meeting a quorum was present and the members who were present voted as follows:

78	Ayes:	
79 80	Nays:	
81 82	Abstentions:	
83	Absent:	
84 85	rosent.	
86 87		

I MINA' TRENTAI KUÅTTRO NA LIHESLATURAN GUÅHAN 2017 (FIRST) Regular Session

Bill No. 39 -34 (COR)

Introduced by:

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Telena Cruz Nelson William M. Castro Fernando Barcinas Esteves F.13.L.

AN ACT TO APPROVE THE TERMS AND CONDITIONS OF GUAM POWER AUTHORITY REVENUE BONDS TO REFUND OUTSTANDING GUAM POWER AUTHORITY REVENUE BONDS.

1 BE IT ENACTED BY THE PEOPLE OF GUAM:

Section 1. Legislative Findings and Intent.

3 (a) I Liheslaturan Guåhan finds that § 8203 of Title 12 of the Guam Code 4 Annotated provides that Guam Power Authority ("GPA") is authorized to incur 5 indebtedness by the issuance of revenue bonds with the approval of I Maga'lahi 6 (the Governor) to raise funds for the purpose of establishing the electric power 7 system of GPA, or of acquiring lands for the system, or of acquiring, constructing, improving, equipping, maintaining, repairing, renewing, replacing, reconstructing 8 9 or insuring the system, or any part thereof, or for the purpose of refunding any such 10 bonds, or for any combination of such purposes.

(b) § 12105 of Title 12 of the Guam Code Annotated provides that the
GPA shall not enter into any contractual agreements or obligations (including
bonds) which could increase rates and charges prior to the written approval of the
Guam Public Utilities Commission (the "GPUC").

15 (c) § 50103 of Title 12 of the Guam Code Annotated provides that public 16 corporations of the government of Guam, including GPA, shall issue bonds and

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other obligations only by means of, and through the agency of the Guam Economic
 Development Authority ("GEDA"), and that GEDA shall not sell any bond without
 the approval by *I Liheslaturan Guahan* of the terms and conditions of the bonds.

(d) Based on historical low interest rates and current market conditions,
GPA expects to be able to refund certain maturities of its outstanding 2010 Series
A revenue bonds for debt service savings. In addition, GPA expects that
opportunities will arise from time to time to refund all or a portion of its other then
outstanding revenue bonds for debt service savings, which is expected to result in
potential savings to ratepayers.

10 (e) In order to benefit ratepayers, *I Liheslaturan Guahan* has determined 11 to approve the issuance of revenue bonds by GPA for the purpose described in the 12 above immediately preceding paragraph, all subject to approval by the 13 Consolidated Commission on Utilities ("CCU"), *I Maga'lahen Guahan*, the 14 GPUC, and the Board of Directors of GEDA in accordance with law.

15 Section 2. Approval of the Terms and Conditions of GPA Refunding
16 Bonds.

I Liheslaturan Guahan, pursuant to §50103(k) of Title 12 of the Guam Code Annotated, hereby approves the terms and conditions of the issuance of senior revenue bonds in one or more series or issues by GPA for the purpose of refunding all or a portion of its currently outstanding 2010 Series A revenue bonds, in accordance with the following requirements, limitations, terms and conditions:

(a) The aggregate principal amount of the refunding bonds shall not exceed the sum of (i) the amount determined in accordance with Section 8229 of Title 12 of the Guam Code Annotated, plus (ii) any additional amount needed to provide for a deposit to the debt service reserve in connection with the issuance of the refunding bonds.

1 (b) All obligation of GPA to pay debt service on, and the redemption 2 price of, the prior bonds shall be discharged concurrently with the issuance of the 3 refunding bonds. Thereafter, the prior bonds shall be payable solely from and 4 secured solely by an escrow established for such purpose in accordance with 5 GPA's existing bond indenture.

6 (c) The final maturity of the refunding bonds shall not exceed the final 7 maturity of the prior bonds. For clarity, the final maturity of the refunding bonds 8 may exceed the maturity of an individual series of prior bonds so long as the final 9 maturity of all such prior bonds is not exceeded.

(d) Such bonds shall be issued and sold pursuant to GPA's existing bond
indenture and in compliance with the provisions of Chapter 8 of Title 12 of the
Guam Code Annotated, including approval by the CCU and by *I Maga'lahen Guahan* as provided therein.

14 (e) The sale of the bonds shall be approved by the Board of Directors of 15 GEDA as provided by Chapter 50 of Title 12 of the Guam Code Annotated and the 16 terms and conditions of the issuance of the bonds shall be approved by the GPUC 17 as provided by Chapter 12 of Title 12 of the Guam Code Annotated.

18 (f) That the present value of debt service on the refunding bonds shall be 19 at least two percent (2%) less than the present value of debt service on the prior 20 bonds, using the yield on the refunding bonds as the discount rate.

(g) Promptly following the approval of the issuance of refunding bonds
by GPA under this Section by the CCU, the CCU shall provide *I Liheslaturan Guahan* a copy of the resolution providing for such approval.

Section 3. Severability. If any provision of this Act or its application to any person or circumstances is found to be invalid or contrary to law, such invalidity *shall not* affect other provisions or applications of this Act that can be given effect without the invalid provisions or application, and to this end the

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provisions of this Act are severable.



Issues for Decision

GPA Resolution No. 2017-45 & GWA Resolution No. 08-FY2018

RELATIVE TO AUTHORIZING THE APPROVAL FOR THE UPGRADE AND COMBINED DATABASE OF GUAM POWER AUTHORITY AND GUAM WATERWORKS AUTHORITY CUSTOMER CARE AND BILLING (CC&B) SYSTEM

What is the project's objective? Is it necessary and urgent?

The Consolidated Commission on Utilities has undertaken a number of initiatives to identify opportunities within, in which the ratepayers of Guam will be better served if both utilities work together as a consolidated utility. GPA and GWA have planned and implemented the replacement of its previous Customer Information System (CIS) with Oracle's Customer Care & Billing (CC&B) system as of March 2015. GPA and GWA both realize that there are efficiencies and cost savings in having a consolidated effort in implementing and maintaining a single CIS.

In April of 2016 GPA and GWA procured the services of Prithibi LLC to provide training, GAP analysis review and ongoing support for the operation of CC&B and extended off site support of the system till June 2018.

In November of 2016, the GAP analysis document was presented to both GPA and GWA which listed deficiencies in the implementation of the CC&B system that impacts the short and long term operation of the CC&B System. In one of the noted deficiencies is that GPA and GWA are utilizing physically separate databases in Oracle CC&B and that there will be efficiencies in terms of cost and resources if one CC&B database is utilized for both utilities.

How much will it cost?

Change order increase amount:

- **GPA From:** \$552,853 to \$1,312,853 (\$760,000)
- GWA From: \$551,853 to \$1,391,853 (\$840,000)

Total: \$1,600,000

When will it be completed?

September 2018

What is its funding source?

Revenue Funded



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GUAM CONSOLIDATED COMMISSION ON UTILITIES GPA RESOLUTION NO. 2017-45 GWA RESOLUTION NO. 08-FY2018

RELATIVE TO AUTHORIZING THE APPROVAL FOR THE UPGRADE AND COMBINED DATABASE OF GUAM POWER AUTHORITY AND GUAM WATERWORKS AUTHORITY CUSTOMER CARE AND BILLING (CC&B) SYSTEM

WHEREAS, the Consolidated Commission on Utilities has undertaken a number of initiatives to identify opportunities within, in which the ratepayers of Guam will be better served if both utilities work together as a consolidated utility; and

WHEREAS, GPA and GWA have planned and implemented the replacement of its previous Customer Information System (CIS) with Oracle's Customer Care & Billing (CC&B) system as of March 2015; and

WHEREAS, the GPA and GWA both realize that there are efficiencies and cost savings in having a consolidated effort in implementing and maintaining a single CIS; and

WHEREAS, in April of 2016 GPA and GWA procured the services of Prithibi LLC to provide training, GAP analysis review and ongoing support for the operation of CC&B and extended off site support of the system till June 2018; and

WHEREAS, in November of 2016, the GAP analysis document was presented to both GPA and GWA which listed deficiencies in the implementation of the CC&B system that impacts the short and long term operation of the CC&B System; and

WHEREAS, one of the noted deficiencies is that GPA and GWA are utilizing physically separate databases in Oracle CC&B and that there will be efficiencies in terms of cost and resources if one CC&B database is utilized for both utilities and

WHEREAS, GPA and GWA has proposed a ten (10) month project with Prithibi LLC, to perform an upgrade to the current CC&B program and to also allow the GPA and GWA databases to co-exist in one instance; and

WHEREAS, GPA and GWA now request authorization for additional expenditures to address the professional services for the CC&B upgrade and combining of the two databases that amounts to \$1,600,000, with the portion of GPA (\$760,000) and GWA (\$840,000), respectively.

NOW, THEREFORE BE IT RESOLVED, the following policy is adopted by the Consolidated Commission on Utilities;

1. The General Manager of the Guam Power Authority (GPA) and the General Manager of the Guam Waterworks Authority (GWA) is authorized to approve the Change Order Agreement with Prithibi LLC, to increase the authorized amount from \$552,853 to \$1,312,853 for GPA and \$551,853 to \$1,391,853 for GWA, respectively; and

2. The General Manager of GPA and GWA is hereby authorized the additional expenditure (cost share) for each agency as follows:

GPA Share: \$760,000 GWA Share: \$840,000

3. The General Manager of GWA is authorized to petition the Public Utilities Commission for review and approval of the additional expenditures to address the professional services for the CC&B upgrade and database merge.

RESOLVED, that the Chairman certifies and the Board Secretary attests to the adoption of this Resolution.

DULY AND REGULARLY ADOPTED AND APPROVED THIS 22ND DAY OF NOVEMBER 2017.

Certified by:

Attested by:

JOSEPH T. DUENAS Chairperson

Consolidated Commission on Utilities

J. GEORGE BAMBA Secretary Consolidated Commission on Utilities

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71	I, J. George Bamba, Board Secretary of the Consolidated Commission on Utilities (CCU) as evidenced				
72	by my signature above do hereby certify as follows:				
73					
74	The foregoing is a full, true and correct copy of a resolution duly adopted at a regular meeting of the				
75	members of Guam Consolidated Commission on Utilities, duly and legally held at a place properly noticed and				
76	advertised at which meeting a quorum was present and the members who were present voted as follows:				
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79	Ayes:				
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81	Nays:				
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83	Absent:				
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85	Abstain:				
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GUAM POWER AUTHORITY ATURIDÅT ILEKTRESEDÅT GUAHAN P.O.BOX 2977 • AGANA, GUAM U.S.A. 96932-2977

- TO: Consolidated Commission on Utilities
- FROM: General Manager
- **DATE:** November 21, 2017

SUBJECT: General Manager's Report

- 1. Generation System Update:
 - The following table projects the expected reserve level for December 2021. The minimum reserve requirement has to be greater (typically about 20MW more) than the total capacity of the two largest unit. The table indicates that if we don't build the new power plant, we will lack capacity by about 2021. The situation is critical because it will take several years to construct base load units and therefore GPA may be face with constructing more emergency units which are less efficient. GPA has adequate standby and emergency power and what it needs are base load units if it is to reduce its operating fuel related cost.
 - TEMES 7 will be turned over to GPA on December 4th, 2017. The turnover is part of the Build, Operate and Transfer (BOT) Contract signed 20 years ago. GPA has begun shadowing the Independent Power Producer (IPP) TEMES operation since June 2017 in preparation of the transfer.

GPA has contracted a Professional Service Team for about \$220K to assist in the management, operation and maintenance of the plant utilizing GPA employees. The annual cost reduction of the takeover is about \$5 Million.

• We have determined we will need to conduct chemical cleaning of Cabras 1 & 2 boilers in order to reduce frequency of boiler tube outages. The work is being schedule for the period between March and April 2018.

Summary of System Generating Capaci	With New			
	180MW			
Description	FY 2015	FY2017	FY2021	FY2021
Baseload MW Capacity	299	208	208	268
Emergency/Standby Capacity	120	200	200	200
Total MW Capacity	468			
Peak MW Demand	249	263	283	283
Reserve Margin	170	145	125	185
Total Two Largest Units	132	120	120	88
Reserve Less Two Largest Units	38	25	5	97
% Baseload Capacity	71.4%	51.0%	51.0%	57.3%
% Energy from Baseload	98.0%	80.0%	62.2%	72.6%
% Energy from Renewables	0.0%	3.5%	26.4%	26.4%
% Energy from Emergency/Peaker	1.0%			

16.5% 11.4%	72.6%
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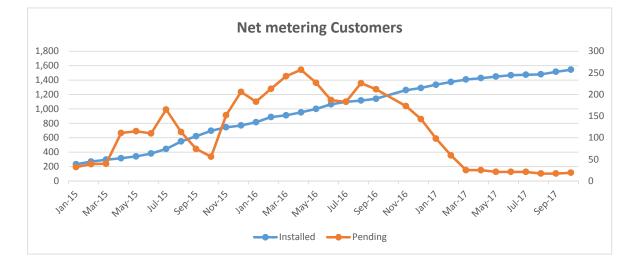
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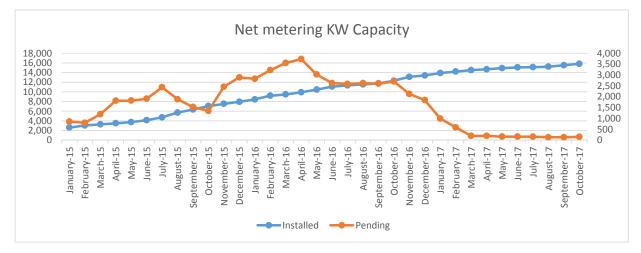
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2. Net metering Summary Ending October 2017:

Description:	Count	Kw
Active	1,544	15,817
Pending	19	151
Totals:	1,563	15 <i>,</i> 968

Service:	Count	KW	Kw/Customer
Residential	1,436	13,145	9.2
Others	108	2,672	24.7
Total:	1,544	15,817	10.2
% Residential	93.0%	83.1%	
Estimated 12 Months Revenue Impact:	\$2,932,188		





3. Renewable Energy Production Summary Thru October 2017:

		Oil Barrels	Fuel Cost
Energy Production Source:	Kwh	Avoided	Avoided
NRG Total Production beginning Oct 2015	100,180,996	167,504	\$9,212,739
Net Metering Estimated Production beginning Jan			
2015	45,829,531	76,628	\$4,214,527
Wind Power Production beginning Jan 2016	725,416	1,213	\$66,710
Renewables Total:	146,735,943	245,345	\$13,493,975
System Heat Rate Kwh/Gal	14.2		
System Fuel \$/Bbl	\$55.00		

4. Demand Side Management (DSM) Program Expenses Thru October 31, 20	17:
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Description	FY16	FY17	FY18 As of Oct 31	Total to Date
Regular/OT Pay	\$11,348.80	\$22,256.00	\$1,391.35	\$34,996.15
Other Contractual	\$28,278.50	\$73,010.05		\$101,288.55
Paid Rebates- Split AC	\$154,700.00	\$557,275.00	\$184,650.00	\$896,625.00
Paid Rebates- Central AC	\$3,400.00	\$8,200.00	\$800.00	\$12,400.00
Paid Rebates– Washer/Dryer	\$2,800.00	\$7,425.00	\$200.00	\$10,425.00

Total Expenses	200,527.30	\$668,166.05	\$188,432.70	\$1,055,734.70

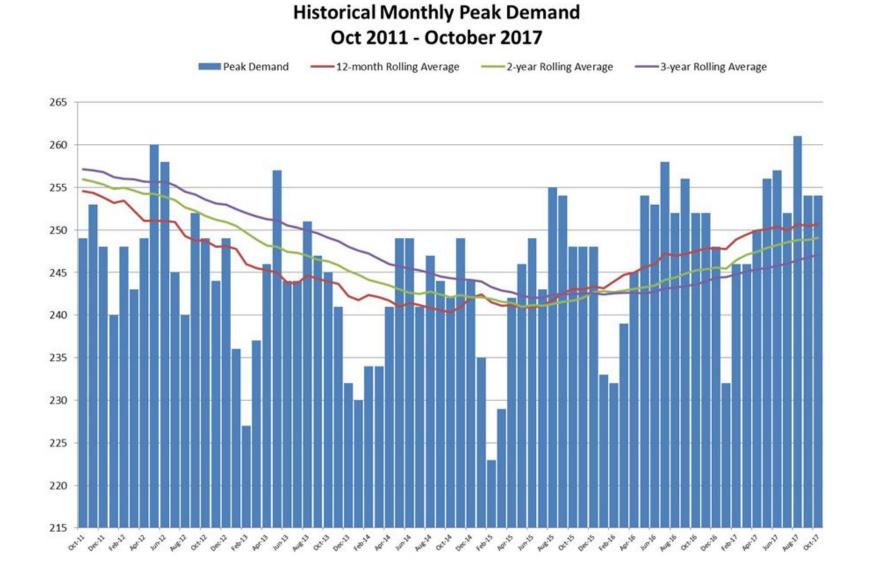
- **5. Phase II Renewables:** The OPA hearings on this protest was conducted between October 24 and 26, 2017. The OPA plans to render a decision about 30 days thereafter and we may get the decision within this month.
- **6. Phase III Renewables Bid**: The bid has been issued. The bid request is for about 40MW of solar PV renewables to be constructed on Navy leased land. The energy produced would be stored in batteries during the day and released at nighttime to meet peak time load.
- 7. Public Power Week: GPA had a successful public power week. Special thanks to Art Perez and the committee which made it all possible with special events, visits to schools and health care centers and a donation to the American Red Cross. The Communications Division will be working on next year's special events to mark GPA's 50th anniversary as an autonomous agency and now public corporation owned by the ratepayers of Guam. We will present the program to CCU in January 2018.
- **8. APPA Award:** Guam Power Authority received an "Award of Merit" from the American Public Power Association in the Web/Social Media category. Thirty-three public power electric utilities earned Excellence in Public Power Communications awards from the American Public Power Association (consist of over 2,000 members). The annual awards recognize excellence in communications. This year's entries were judged in three categories: print/digital, web/social media, and video. Awards were given to utilities that showed ingenuity and creativity in telling their stories through outstanding copy, design, financial data presentation, graphics, social media engagement, video editing, and web layout and interactivity.

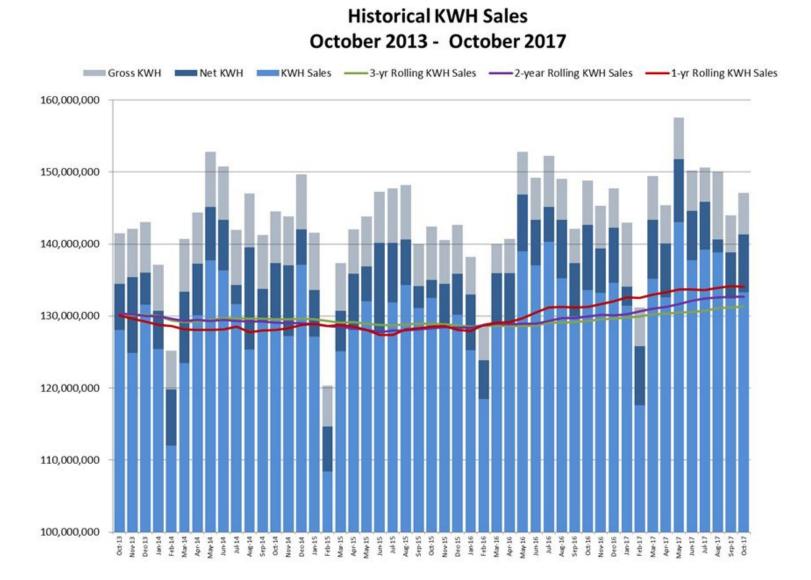
9. PUC Agenda for November 30, 2017:

- GPA Docket 18-02, Petition to Approve the Procurement for 180MW Power Plant
- GPA Docket 17-20, Petition to Refund/Refinance GPA's outstanding 2010 Series A Revenue Bonds

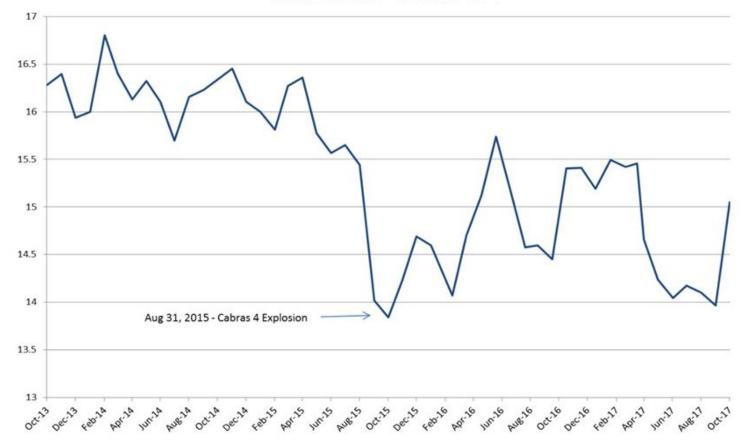
- **10. Presentations on New Power Plant:** I have made presentations to the following stakeholders over the past few weeks:
 - American Society of Military Engineers October 19th
 - Guam Contractor's Association November 15th
 - GHRA Membership November 16th
- 11. Integrated Resource Plan-New 180MW Power Plant Chronology: Attached is the chronology of events on effort towards the construction of the new 180 MW plant. We continue to reach out to stakeholders explaining the need for the new plant and asking for their support on the effort. Our latest outreach included presentations to the general membership of the American Society of Military Engineers, Guam Contractor's Association and last week to the Guam Hotel and Restaurant Association. We are currently scheduling village meetings for Dededo, Tamuning and one in the southern villages. Attached is a summary of questions asked during these outreaches and responses provided.
- 12. Key Performance Indicators: The following pages provide updated information thru October 2017.

John M. Benavente, P.E.

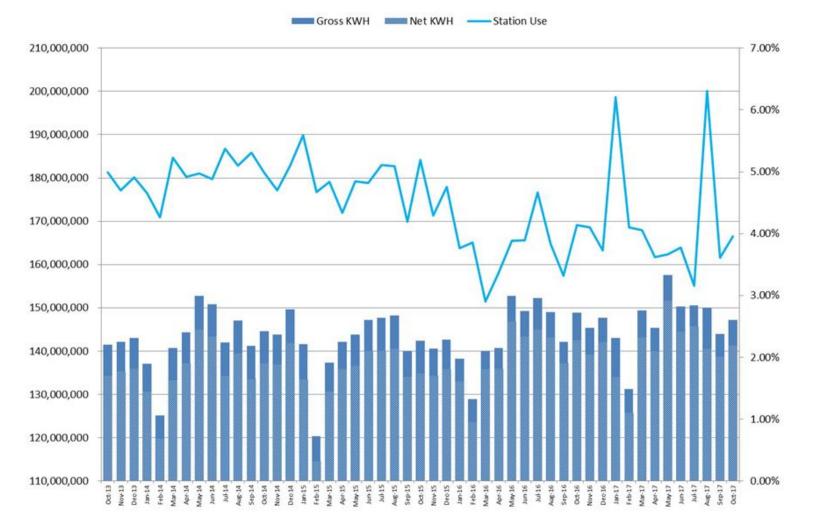




SYSTEM GROSS HEAT RATE (KWH/Gal) October 2013 - October 2017



Gross and Net Generation (KWH) October 2013 - October 2017



Fuel Cargo and Fuel Consumption Costs (\$/bbl) October 2013 - October 2017



	DATE	ΤΟΡΙΟ	DESCRIPTION
1.0	DECEMBER 2008	The Guam Public Utility Commission (PUC) approved GPA's 2008 Integrated Resource Plan (IRP). The plan is an open dialogue between GPA and its stakeholders to determine the best strategies for the type, amount and timing of new resource acquisitions to meet future electrical loads.	 The IRP approval had conditions for GPA to investigate the economics of the liquefied natural gas fuel diversification strategy, investment plan for sea water air conditioning project, and to comply with protocols identified in the MOU for IRP implementation. Prior to approval by PUC, various stakeholders meetings/presentations were held to inform the public about GPA's IRP process and renewable energy initiatives: Stakeholder Meeting 1 – October 18, 2007 Stakeholder Meeting 2 – November 29, 2007 Stakeholder Meeting 3 – February 1, 2008 Stakeholder Meeting 4 – April 4, 2008
2.0	APRIL 2012	IRP update – GPA initiated the 2012 IRP update with a set of stakeholder meetings in April 25, 2012 GPA presented several topics to summarize the drivers impacting energy resource requirements and costs.	 The topics presented at the stakeholder meetings include: Demand Forecasting Demand Side Management & Smart Grid Environmental Compliance Issues Existing Supply Side Resource Supply Side Options and Renewable Energy Progress Fuel

Timeline of Events for GPA's Integrated Resource Plan (IRP) & 180 MW New Generation Power Plant

Page 1 of 9

	DATE	ТОРІС	DESCRIPTION					
3.0	JULY 2013	GPA filed the 2013 IRP to the PUC and PUC approved it conditionally requiring GPA to submit a detailed information in the form of a Resource Implementation Plan (RIP)	 System Reliability & Plant Life Extension Compliance with USEPA Emissions Regulations Renewable Energy Integration 					
4.0	NOVEMBER 2013	CCU Resolution (Resolution 2013-50) was approved and adopted on Nov 12 th ; additional studies were conducted to further refine the IRP recommendations.	 The resolution authorized GPA to proceed with implementing the following: Retirement of Tanguisson 1 & 2 Power Plant by 2016 New Generation Units by 2019 New Fuel Supply by 2021 On Nov 27th GPA filed with the PUC the IRP Implementation Strategy Decision which outlined key decisions and milestones critical to developing the Resource Implementation Plan (RIP). 					
5.0	APRIL 2014	GPA Integrated Resource Plan (IRP) Forum was held on April 14, 2014	 Topics discussed during the IRP forum include: Renewables Energy Storage Fuel and New Power Generation Financing for LNG Potential Contracts & Legal Structures 					
6.0	OCT 2014	<i>CCU Resolution (Res No. 2014-48)</i> authorized GPA to proceed with the Implementation of the IRP and petition the PUC for the approval of procurement of New Generation combined cycle units.	 The authorization allows GPA to develop an acquisition strategy for new generation which includes approximately 120 MW of dual fired combined cycle generation and option for an additional 60 MW of dual fired combined cycle generation. It also authorizes management to pursue and integrate utility scale renewable energy plants into GPA's generation profile and to evaluate and implement Demand Side Management programs. 					

	DATE	ТОРІС	DESCRIPTION				
7.0	JAN 2015	PUC deferred GPA's petition for the approval of procurement of new generation combined cycle units and to proceed with Implementation of the Resource Implementation Plan (RIP)	 PUC concluded that GPA did not present sufficient evidence to justify the need for a new combined cycle generation unit. Further consideration on the petition was deferred pending specific and complete information from GPA as previously requested by PUC related to the IRP and a July 2013 order. PUC has found the information provided by GPA (filed in Nov 2013) in response to the July 2013 order to be generally lacking in at best consistency with its presentations to the CCU and at worst completeness of necessary analysis. Further discussions and collaboration is needed between the PUC Administrative Law Judge (ALJ), Lummus Consultants and GPA to develop updated analysis related to the need for new combined cycle or other types of capacity. GPA was ordered to submit a revised Resource Implementation Plan (RIP) to the PUC that includes all provisions previously ordered in the July 2013 PUC order. 				
8.0	MARCH 2015	<i>CCU Resolution (Res No. 2015-21)</i> authorized GPA to petition the PUC for approval of consulting services for implementing USEPA Compliance.	 The authorization allows GPA to implement its proposed compliance plan which includes procurement, contracting, construction and commissioning support for 180 MW combined cycle power plant. 				
9.0	MAY 2015	PUC deferred GPA's petition for consulting services implementing USEPA Compliance.	 PUC decided to defer its approval of GPA's petition for consulting services for its proposed compliance plan which includes procurement, contracting, construction and commissioning support for 180 MW combined cycle power plant. 				
10 AUGUST 2015		On August 31 st , GPA experienced a major failure of the Cabras 3 & 4 Power Plants when an explosion and fire occurred.	 The explosion resulted in the loss of 78MW of base load capacity. The loss of two Cabras power plants only exacerbated our power situation and lack of generation. GPA's strategy moved from a planning to a procurement approach; GPA must work aggressively to procure the 180 MW combined cycle power plant. 				

Page 3 of 9

	DATE	ТОРІС	DESCRIPTION
11	OCTOBER 2015	PUC considered the impact of the loss of Cabras 3 & 4 Power Plants and the need for additional generation reserve.	 To further Support GPA's request for 180MW of new generation capacity, the PUC set conditions and required GPA to provide additional information as follows: Provide third party condition assessment of the Cabras 1 & 2 Power Plant Provide customer rate impact of new capacity Initiate the Demand Side Management (DSM) Program Evaluate additional renewables into the GPA generation plan
12	DECEMBER 2015	PUC ordered GPA under Docket 15-05 to update the IRP in consideration of the Cabras 3 & 4 power plant explosion of August 31, 2015.	 The PUC order requires the IRP to include or address the following by <i>Feb 26, 2016</i>: How much new generation (MW) should be procured? What size units should be procured? Should technology be specifically for Combined Cycle (CC) or be broader and let proponent specify? What should the fuel source for new units be?
13	MAY 2016	On May 24, 2016 GPA filed an update by the CCU on the Integrated Resource Plan (IRP)	 GPA's current plan is to retire the Cabras 1 & 2 Steam Power Plants no later than July 1, 2021. Upon the completion of the construction of 180 MW of dual fired new generation, GPA plans to retire the Cabras 1 & 2 power plant. Although the IRP looks out 30 years, GPA's request for approval concentrates on actions over the next 5 years. CCU Resolution (Resolution No. 2016-36) authorized to petition the PUC for approval of the plan to acquire up to 180 MW of dual fired combined cycle units and retire Cabras 1, 2, 3 & 4 units by July 1, 2021. GPA provided PUC with "estimates" as to rate impact from its proposed procurement. It has developed both "High and Low Capital of Cost Estimates" for insurance settlements of proceeds for Cabras 3 & 4 claim.

Page 4 of 9

	DATE	ΤΟΡΙΟ	DESCRIPTION
14	JULY 2016	GPA completed its response to the October 2015 PUC order	 GPA completed its response which included a Life Assessment study of the Cabras 1 & 2 Expanded the Demand Side Management (DSM) program Completed a Time of Use Study Provided a Customer Rate Impact summary Updated the IRP results to include the following: Updated fuel and load forecasts Life Assessment report of the MEC Power Plant Update to renewable integration with regards to Phase II Update on the lease of Navy properties for solar photovoltaic (PV) development Evaluation of energy storage for increased PV penetration
15	OCTOBER 2016	PUC Administrative Law Judge (ALJ) conducted public hearings on GPA's new generation request to solicit public comment and testimony. GPA provided a presentation on its 2016 Integrated Resource Plan (IRP) which includes the acquisition of new generation resources up to 180 MW in capacity.	 Evaluation of energy storage for increased PV penetration OCTOBER 4-6, 2016: PUC Stakeholder Meetings & Presentation to the Public Dates and Location are as follows: October 4, 2016 – Hagatna (PUC, GCIC Bldg) October 5, 2016 – Dededo Senior Citizen's Center October 6, 2016 – Agat Community Center October 4th - PUC ALI Questions: Approximate cost of 180MW of new generation How will cost be paid for of 180MW? Additional costs of fuel line, land purchase etc.? How Cabras insurance proceeds will be applied to costs? Potential rate impact? Recapitalization/Refunding of existing bonds Issuance of new bonds

Page 5 of 9

	DATE	TOPIC	DESCRIPTION
15	DATE OCTOBER 2016	All of the testimony supported the procurement by GPA of at least some new combined cycle generation capacity.	 DESCRIPTION October 5th - No questions only presentation to the Mayor and one member of the public October 6th - Questions/Comments from two members of the public (Mr. Babauta & Mr. Ivan Matak) Mr. Babauta's Questions/Comments: How does this affect Southern Guam? What is the status of the Cabras ins. settlement? How will this be done? Will it be privatized? What's the rate impact projection? GPA buying power from private power co. Mr. Babauta fully supports the construction of new power plant. He recommends GPA to fully privatize the power plant, because of history of unstable power he's experienced over the years. Lack of stable power is a big issue. Economic growth, enhanced competition for the economy to better compete with other tourist destination. Impact on small business and quality of life Need better leadership and training for employees Mr. Ivan Matak Against privatizing GPA, what will prevent an increase in power rates for the island if power plant is privatized? How do we stop them from increasing the rates? We cannot support high cost of power.
		<i>PUC approves GPA's Petition</i> (under PUC Docket 15-05) for approval of Procurement for a New Combined Cycle Plant up to 180 MW and to Proceed with Implementation of the IRP.	 rates? We cannot support high cost of power. During its October 27th meeting, <i>PUC authorized GPA to procure a combined cycle plant of up to 180 MW</i>. The 180 MW combined cycle generation capacity shall be based upon the Independent Power Producer (IPP) model as a Build Operate Transfer (BOT) GPA is authorized to procure an Engineering, Procurement and Construction Management contractor for a new combined cycle plant.



	DATE	TOPIC	DESCRIPTION					
16	NOVEMBER 2016	An Informational Briefing was held on November 1, 2016 for USEPA GPA issues an RFP for Engineering, Procurement and Construction Management (EPCM) Contract	 The information presented to USEPA included: Generation capacity before August 31, 2016 explosion Situation after the Cabras 3 & 4 explosion Capacity recovery plan outlined Current status of recovery efforts Interim plan for next 4 years Integrated Resource Plan (IRP) thru 2021 and beyond On November 10th GPA issued RFP-17-001 for Engineering, Procurement and Construction Management (EPCM) Contract for the procurement development of an IPP contract for new generation capacity and to represent GPA as owner's engineer support in the construction of the new power plant. 					
		CCU authorizes GPA to acquire land for new power plant	 On November 22nd CCU passes Resolution 2016-66 which authorizes GPA to acquire land for new power plant. 					
17	DECEMBER 2016	Several proposals received from the RFP and EPCM Contractor selected	 On Dec 19th Stanley Consultants, Inc. was determined to be the most qualified firm to be the EPCM to support the construction of a new 180 MW power plant. 					
18	JANUARY 2017	CCU Resolution (Res No. 2017-01) authorized GPA to Proceed with a Contract with Stanley Consultants, Inc.	 CCU authorized the General Manager to contract with Stanley Consultants, Inc. up to \$750,000 for the procurement development of the new generation IPP contract. 					
19	FEBRUARY 2017	GPA issues Land Acquisition Bid	 On February 2 GPA issued GPA-042-17 for land acquisition for the new power plant. Due to non-responsive bids, this bid was cancelled in April. 					
20	MAY 2017	GPA meets with Guam Ancestral Lands Commission on acquiring land for new power plant	 On May 24, with CCU approval, GPA presents to GALC a proposal to acquire property adjacent to the proposed GWA Secondary Water Treatment Facility site. 					

	DATE	ΤΟΡΙΟ	DESCRIPTION				
21	JUNE 2017	GPA issues Solicitation of Interest to acquire land for new power plant	On June 13 th GPA issued notice for a Solicitation of Interest to property owners in the Harmon area regarding GPA's interest in acquiring property. This closed on July 3 rd .				
22	JULY – DEC 2017	Community Outreach for the New 180 MW Power Plant	 Presentations to various community organizations and government entities on GPA's 180 MW Power Plant project continues, they include: Guam Visitor's Bureau Dededo Municipal Planning Council (MPC) & Office of the Mayor Rotary Club of Tumon Bay Guam Chamber of Commerce Water and Environmental Research Institute of the Western Pacific (WERI) Society of American Military Engineering Guam Hotel & Restaurant Assn (GHRA) Tamuning MPC Guam Land Use Commission (GLUC) 				
23	SEPTEMBER 2017	CCU Resolution (Res No. 2017-39) authorized GPA to petition the PUC for the approval of the Bid Process for 180 MW Power Plant	 The authorization allows GPA to petition the PUC for the approval of the multi-step bid process and to initiate the IPP Request for Qualifications (RFQ) to establish a bidders list. 				
24	OCTOBER 2017	CCU Resolution (Res No. 2017-42) authorized GPA to Acquire Real Property for 180MW Power Plant	 The authorization allows GPA to execute the real property purchase agreement up to 60 acres of unimproved real property to construct and operate 180MW power generation plant. The CCU authorizes GPA to commence rezoning efforts. The authorization also allows GPA to petition the PUC for approval of the real property purchase. 				

		DATE	TOPIC	DESCRIPTION
	25	NOV-DEC 2017	Rezoning Process	 With authorization by the CCU, GPA will begin the rezoning process CPA will continue its outroach efforts to surrounding landowners and
			Outreach to surrounding landowners & Updates to Village and Stakeholders	 GPA will continue its outreach efforts to surrounding landowners and continue updates to village & community stakeholders.

as of 11/20/2017

Q&A from Informational Briefings

Summary

GUAM VISITOR'S BUREAU

(Vice Chairman Monte Mesa & Vice President Tony Muna, Jr.) 7/27/17

EXISTING PLANTS. Asked if the Cabras and Tanguisson areas be redeveloped for something other than power generation. MM suggested yacht/small harbor, recreational area, etc. for Cabras area, and luxury boutique hotel for Tanguisson.

FUEL. Concerned about the safety of natural gas handling and storage. Discussed options, including FSRU and pipeline. LNG storage tanks at Ukudu not anticipated.

AESTHETIC. Commented that plant design should be aesthetic with surrounding community. Discussed examples of modern plant design, smoke stack, transmission lines, etc.

COST. How will this project affect power rates? Asked whether insurance proceeds from Cabras 3 & 4 will offset construction costs. Asked about the cost of additional water treatment.

GOVERNOR CALVO, SENIOR STAFF & ECONOMIC DEVELOPMENT SUBCABINET DIRECTORS

8/3/17

LEGAL CONCERNS: Governor asked if GPA entered into a consent decree with USEPA. Concerned that current H-2B situation will delay GPA's planned CIPs.

PROPOSED BID: Governor asked the definition of "flexible generation" and "combined cycle"

ENVIRONMENTAL CONCERNS: Concerned that new plant will pollute the aquifer. How will emissions affect the Ukudu and Tumon areas? Opined that this is main concern of tourism industry.

RENEWABLE ENERGY: Why build a traditional power plant when trend is toward renewable energy? How productive will the Hanwha/KEPCO PV systems be? Asked about other renewables (geothermal and wind).

COST: What is the total CIP over what period of time? What is the cost of energy storage batteries?

DEDEDO MUNICIPAL PLANNING COUNCIL & MAYOR SAVARES

8/9/17

FUEL. Is there a supply and demand for natural gas? Where would GPA purchase natural gas from? *JB* response: Clarified that it's LNG. Yes, supply and demand are present. The US is the biggest producer. Australia, Indonesia and China also produce and export.

as of 11/20/2017

GENERAL PLANNING. Does the military produce their own power? *JB response: No, GPA provides power island wide, although Orote is a standby generator*. What if the military needs more power? *JB response: We've built that into our considerations*.

EXISTING PLANTS. What is the timeline to retire Cabras 1 & 2? *JB response: approximately 6 mos after commissioning of the new plant.*

PROPOSED BID. Is a 2021 a realistic time frame for the construction and commissioning? *JB response: Yes.*

ROTARY CLUB OF TUMON BAY

9/5/17

no questions related to the planned 180MW power generation plant

GUAM CHAMBER OF COMMERCE (General Membership Meeting)

9/27/17

ENVIRONMENTAL CONCERNS. (Jeff Jones) What type of emissions will this produce? Same type of emissions from Cabras? *JB response: No. Consider Dededo and Macheche power plants; emissions level is minimal and unnoticeable. Emission plume is dependent on stack height. Noise levels will be controlled.*

SUPPORTING INFRASTRUCTURE. (Roger Crouthamel) Will GPA use the existing pipeline? *JB response: GPA will construct a new pipeline for ULSD using the same easements. It is considering a new pipeline for LNG although we have not formalized the decision.* Discussed regasification of LNG.

RENEWABLE ENERGY. (Matthews Pothen) How many net metering customers does GPA have? *JB* response: 1400 customers contributing 15MW in the daytime. 25MW utility scale PV contributes to the system. Explained how weather affects PV production. Discussed battery storage project.

RENEWABLE ENERGY. (Matthews Pothen) Is there difficulty adding more net metering customers? *JB response: No. GPA has several utility renewable projects its preparing for bid, including Phase III. GPA is purchasing energy from utility-scale renewable IPPs at 8 cents/MW*.

WERI

(Dr. John Jenson, Director) 10/11/17

ENVIRONMENTAL CONCERNS. Confirmed that directional flow from lot will be toward coast, not toward basal/parabasal of aquifer.

FUEL. Opined interest in LNG. Inquired about fuel lines and storage.

SOCIETY OF AMERICAN MILITARY ENGINEERS (General Membership Meeting) 10/19/17

RENEWABLE ENERGY. (John Robertson, AmOrient) Is wind energy feasible for Guam? Is the existing wind turbine working? *The turbine has existing 50 kWh so far, but wind energy doesn't look as feasible as solar PV at this time.*

RENEWABLE ENERGY. (Zenon Bollinger) Will the transmission lines associated with GPA's Phase II renewable energy project be owned by GPA? *The transmission lines will be turned over to GPA.*

RENEWABLE ENERGY. Has GPA considered the use of fuel cells to store energy? Not at this point.

PROPOSED BID. (Tor Gudmundsen) Will new fuel pipelines be part of the new power plant project? *New pipelines will need to be constructed, although that bid might be separate from the main power plant bid.*

GUAM CONTRACTORS' ASSOCIATION (General Membership Meeting) 11/15/17

SUPPORTING INFRASTRUCTURE. Will GPA seek additional easements for transmission and fuel lines? *JB response: GPA will utilize existing easements, and will request additional easements only where necessary.*

COST. (Rey Llaneta) What is the estimated total cost of this plant? *\$400M estimated.* How will GPA pay for this? *Recapped presentation points highlighting operations cost reductions, insurance proceeds, and refunding of existing bonds.*

PROPOSED BID. (Rey Llaneta) Has GPA considered a public-private partnership? Yes, seeking an IPP. Is GPA seeking interested vendors? Yes. 10 – 15 companies/groups have expressed interest in this project. When will GPA issue the bid? GPA actively seeking CCU and PUC approvals for bid issuance in late 2017 or early 2018.

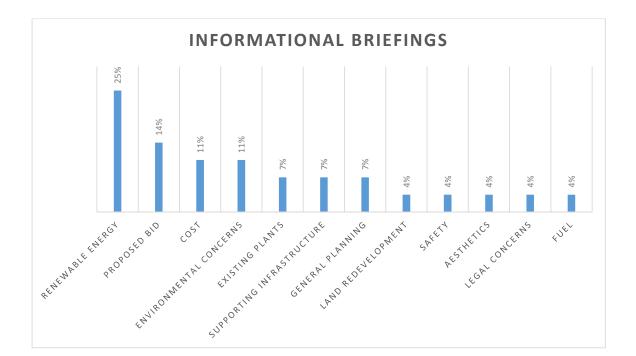
GUAM HOTEL & RESTAURANT ASSOCIATION (General Membership Meeting) 11/16/17

RENEWABLE ENERGY. (Joe Blas, Nikko) Is the wind turbine at Cotal generating energy? *Yes, the energy it produces feeds into the grid. It has saved GPA 50k barrels of oil thus far.*

GENERAL PLANNING. (Frank Kenney, Jamaican Grill) Is GPA meeting its goals and objectives? What are GPA's forward-looking plans? *GPA will meet the renewable energy legislative goals sooner than required. This new plant will allow GPA and the community to build and expand renewable and sustainable energy projects.*

EXISTING PLANTS. (Mary Rhodes, GHRA) What will happen with the Aggreko units? *We may use the individual units for emergency and/or supplemental needs at water wells, emergency shelters, etc.*

as of 11/20/2017



as of 11/20/2017

Q&A By Category

RENEWABLE ENERGY

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PROPOSED BID

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- 2. Is a 2021 a realistic time frame for the construction and commissioning? *JB response: Yes.*
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LEGAL CONCERNS

1. Governor asked if GPA entered into a consent decree with USEPA. Concerned that current H-2B situation will delay GPA's planned CIPs.

LEAC Update-WTI Spot Price (Dollars per Barrel)

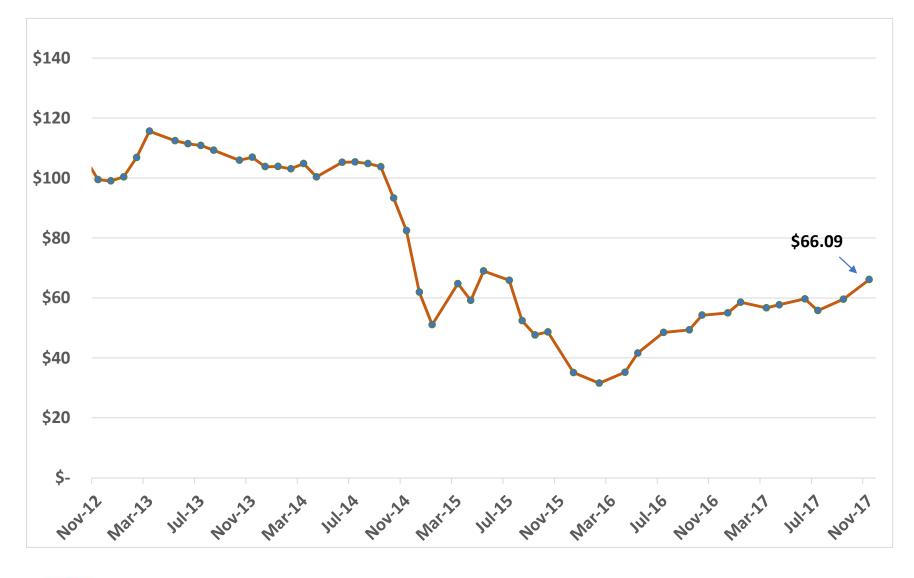
(GPA fuel cost is around \$8.61 per barrel above WTI Spot Price)







LEAC Update – GPA Fuel Purchases (Per Barrel)







LEAC Update – LEAC Factor

GPA Docket 15-27

- LEAC fuel forecast price should be based upon the five day period which is ten days before the meeting at which the PUC determines the LEAC factor
- Based on 5 day Morgan Stanley Fuel Price Forecast





LEAC Update – Sing HSFO 180 CST Price MT

Sing HSFO 180 CST

Date	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18
11/15/2017	\$363.40	\$363.40	\$363.15	\$361.90	\$361.98	\$358.90	\$358.90	\$358.90	\$355.48	\$355.48	\$355.48	\$351.90	\$351.90
11/14/2017	\$372.35	\$372.35	\$371.60	\$370.60	\$370.60	\$367.44	\$367.44	\$367.44	\$363.69	\$363.69	\$363.69	\$359.35	\$359.35
11/13/2017	\$377.03	\$376.03	\$375.03	\$373.78	\$373.78	\$370.11	\$370.11	\$370.11	\$365.36	\$365.36	\$365.36	\$360.28	\$360.28
11/10/2017	\$376.47	\$376.22	\$375.72	\$374.22	\$374.31	\$370.56	\$370.56	\$370.56	365.56	365.56	365.56	360.47	360.47
11/9/2017	\$375.13	\$375.63	\$374.88	\$373.38	\$373.46	\$369.46	\$369.46	\$369.46	\$365.46	\$365.46	\$365.46	\$361.29	\$361.29
Average	\$372.88	\$372.73	\$372.08	\$370.78	\$370.83	\$367.29	\$367.29	\$367.29	\$363.11	\$363.11	\$363.11	\$358.66	\$358.66





LEAC Update – LEAC Rate

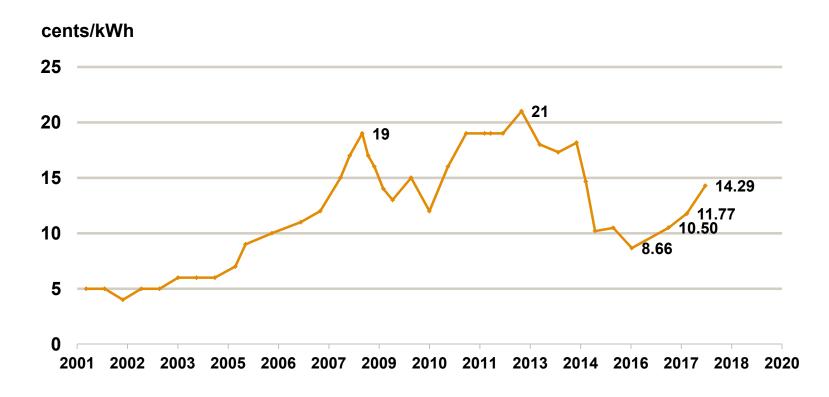
		Pro	ojected Ir	ase from	Projected		
	Projected		current	Under-			
	50% Recovery	.00% Recover	0%	Recover	100	% Recove	50% Recovery
Dispatching 78-22							(mil)
GPA Fuel Cost (\$65-\$70/Bbl)	\$ 0.142881	\$ 0.165062	\$	0.0252	\$	0.0473	14.3

Date	\$/Bbl		Asia Noon Call Forward Prices in MT	Premium - HSFO per barrel	Premium - LSFO per barrel	Weighted Avg Premium	Price/Bbl	Price/Bbl w Premium
Oct-17	\$57.79	Actual						
Nov-17	66.09	Actual						
Dec-17	67.21	Forecast	\$ 372.73	\$ 6.52	\$ 12.49	\$ 8.61	\$ 58.60	\$ 67.21
Jan-18	67.11	Forecast	372.08	6.52	12.49	8.61	58.50	67.11
Feb-18	66.91	Forecast	370.78	6.52	12.49	8.61	58.30	66.91
Mar-18	66.91	Forecast	370.83	6.52	12.49	8.61	58.31	66.91
Apr-18	66.36	Forecast	367.29	6.52	12.49	8.61	57.75	66.36
May-18	66.36	Forecast	367.29	6.52	12.49	8.61	57.75	66.36
Jun-18	66.36	Forecast	367.29	6.52	12.49	8.61	57.75	66.36
Jul-18	65.70	Forecast	363.11	6.52	12.49	8.61	57.09	65.70
Aug-18	65.70	Forecast	363.11	6.52	12.49	8.61	57.09	65.70
Sep-18	\$65.70	Forecast	\$ 363.11	\$ 6.52	\$ 12.49	\$ 8.61	\$ 57.09	\$ 65.70





LEAC Update – Historical LEAC Rate







LEAC Update - Sample Residential Bill

	RATE SCHEDULE R							
	Existing Rate				Proposed	Rate (50%)	Proposed Rate (100%)	
кwн			1,000			1,000		1,000
Monthly Charge	\$ 15.00	\$	15.00		\$ 15.00	\$ 15.00	\$ 15.00	\$ 15.00
Non-Fuel Energy Charge								
First 500 KWH	0.069550		34.78		0.069550	34.78	0.069550	34.78
Over 500 KWH	0.086870		43.44		0.086870	43.44	0.086870	43.44
Emergency Water-well charge	0.002790		1.40		0.002790	1.40	0.002790	1.40
Insurance Charge	0.000000		-		0.000000	-	0.000000	-
Working Capital Fund Surcharge	0.000000		-		0.000000	-	0.000000	-
Total Electric Charge before Fuel Recovery Charges			94.61			94.61		94.61
Fuel Recovery Charge	0.117718		117.72		0.142881	142.88	0.165062	165.06
Total Electric Charge		<u>\$</u>	212.32			<u>\$ 237.49</u>		<u>\$ 259.67</u>
Increase/(Decrease) in Total Bill						<u>\$ 25.16</u>		<u>\$ 47.34</u>
% Increase/(Decrease) in Total Bill						11.9%		22.3%
% Increase/(Decrease) in LEAC rate						21.4%		40.2%









Transmission & Distribution Grid Improvement Programs

21 November 2017

Engineering & Technical Services

AGENDA

- Achieving T&D Operational Excellence
- Advanced Grid Analytics
- Using Grid Analytics to Achieve T&D Operational Excellence
- Renewable Energy Integration Project





Achieving & Maintaining Operational Excellence: T&D System

Setting up the Performance Management System

Operational Excellence

- Operational Excellence is achieved when each and every employee can see the flow of value to the customer, and fix that flow before it breaks down. (ASQ)
- Implication (ASQ)
 - Operational excellence applies to every level and every person in the organization
 - Definition is clear, concise, practical and, most importantly, actionable and teachable.
 - Everyone in the organization must have for their respective areas:
 - Access to a visible flow of operational information
 - The ability to recognize if that flow is normal or abnormal and what to do if it is abnormal, all without requiring the assistance of management

Operational Excellence versus Continuous Improvement

- Operational Excellence is doing the right things right (effectiveness)
- Continuous Improvement is doing things right (efficiency)
- Continuous Improvement is part of the toolbox to achieve Operational Excellence

Four Areas of T&D Operational Performance

- Reliability and Power Quality
- Safety
- Work Force Development
- System Improvement/Asset Lifecycle Cost Optimization

These are the four panes for T&D operational performance KPIs.

Two-thirds of material covered by GPA whitepaper and presentations forms the basis for APPA RP3 Certification Program



The RP₃ program recognizes utilities that demonstrate high proficiency in reliability, safety, work force development and system improvement. Criteria within each of the four RP₃ areas are based upon sound business practices and recognized industry leading practices.

Engineering Performance Goal: GPA shall achieve RP3 Gold Certification by 2019.

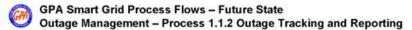
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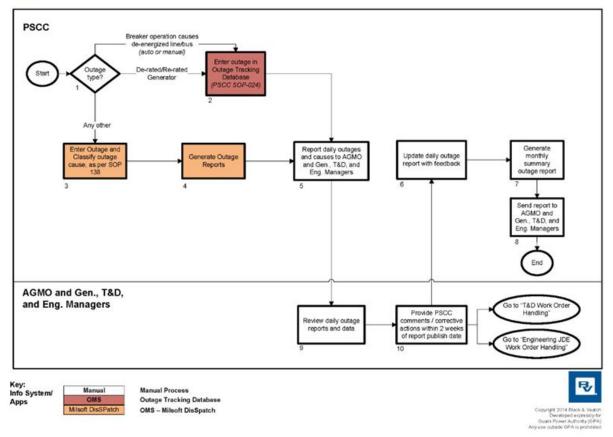
Reliability

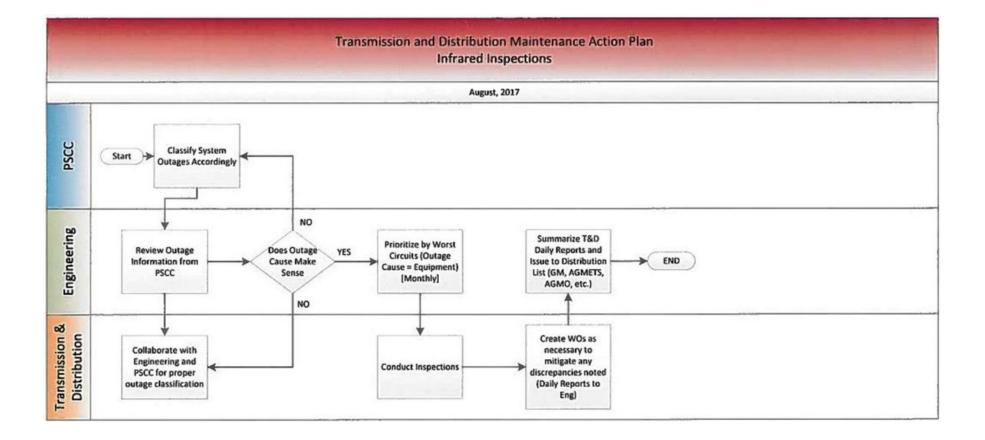
- Two Basic Qualities for Reliability:
 - Availability
 - Resiliency

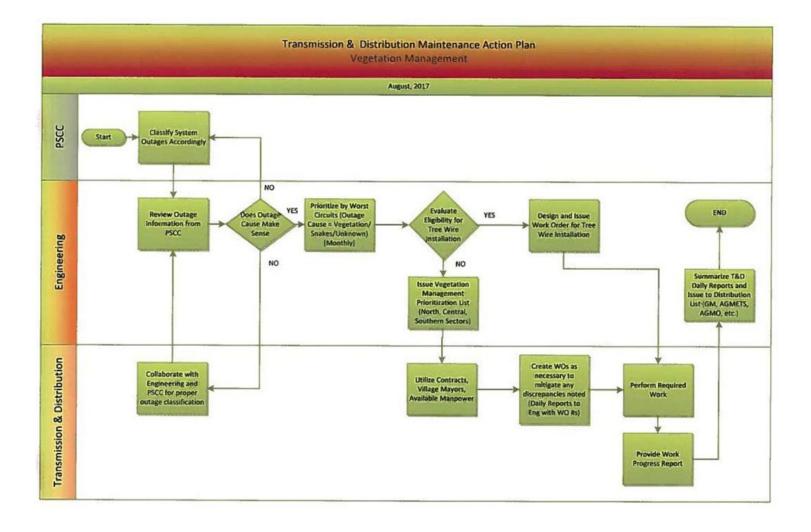


- Availability refers to our ability to supply the power to all customers at all times
- Resiliency refers to the ability of the GPA electric system to recover from repeated or extreme disturbances such as major storms
- Key elements of the Reliability Performance include:
 - Reliability Indices
 - Mutual Aid Agreements
 - System-Wide Disaster Management Plan/Emergency Response Plan
 - Create, Map, and Execute Business Processes
 - Cyber and physical security/Enterprise Protective Services (EPS)









Safety

- AGMA/Safety is Responsible
- Engineering is Support
- T&D is Support
- Employees' safety begins with an established safety program covering all aspects of GPA operations and services including:
 - Using an Accepted Safety Manual
 - <u>https://ebiz.publicpower.org/APPAEbiz/ProductCatalog/Product.aspx?ID=7310</u>
 - OSHA Compliant Safety Manual
 - Following Safe Work Practices
 - Safety Training
 - Safety Equipment
- Benchmarking safety statistics by tracking industry-accepted OSHA incident rates
 - APPA Safety Award

Work Force Development

- Investing in Employees is key for providing reliable and customerfocused service including:
 - Technical Training
 - Leadership Training
 - Delivering High-Quality Customer Service Training
 - Intra-Industry Networking
 - Professional Development

- AGMA/HR is Responsible
- Engineering is Support
- T&D is Support

System Improvement / Asset Lifecycle Cost Optimization (SI/ALCO)

• Excellent Utility Asset Stewardship Ensures Long-Term System Reliability and Performance

74

- Utility Asset Stewardship includes:
 - Comprehensive O&M Programs
 - Comprehensive Improvement Programs
 - High Quality Standards
 - System Loss Management Program
 - Asset Lifecycle Cost Optimization
 - System Maintenance and Betterment (CMMS) -- Current
 - Energy Conservation and DSM
 - Enterprise Asset Management (EAM) -- Future
 - Research & Development
 - Planning



Engineering is

Responsible

Assigned to SPORD/ENG/IT

14

SI/ALCO: High Quality Standards

- System Design
- Construction Standards
- Installation Standards
- Standards Enforcement
- Planning and Operational Standards

Engineering is Responsible

SI/ALCO: Planning

- Long-Range Transmission Plan
- Medium-Range Distribution Plan
- Integrated Resource Plan
- Grid Operational Studies
- Renewable Energy Integration
- System Protection Plan

Engineering is	
Responsible	

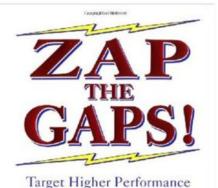
SPORD is Responsible Engineering is Support

16

SI/ALCO: Asset Lifecycle Cost Optimization

- Track and Evaluate Cost Estimates through the Execution Cycle
 - Work Estimates versus Actuals
 - Meaningful Gaps
 - Superior Performance
 - Learn and Improve
 - Poor Performance
 - Zap the Gaps
- Track and Evaluate Quality through the Execution Cycle
 - Work Scope versus Performance
 - Standards versus Quality of Work
 - Meaningful Gaps
 - Superior Performance
 - Learn and Improve
 - Poor Performance
 - Zap the Gaps

Engineering is Responsible



and Achieve It!

Ken Blanchard

Dana Robinson

Jim Robinson

Engineering is Responsible

17

Scope of Work

- Building the Information Infrastructure
- Achieving Operational Excellence
- Maintaining Operational Excellence
- Reset

Building the Information Infrastructure

- Building the Performance Management System
- Information Infrastructure must provide EVERYONE in the organization for their respective areas:
 - Access to a visible flow of operational information
 - The ability to recognize if that flow is normal or abnormal and what to do if it is abnormal, all without requiring the assistance of management
- In an effective manner
 - Highly Useful
 - Highly Used
 - Low Cost
 - Sustainable

Responsibility

- Engineering is Responsible
- IT is Support
- AGMETS is Guide

Vision

• GPA will transform data into actionable information to make better strategic and operational decisions to achieve operational excellence across GPA operations, finance, and customer service by 2020.

Achieving Operational Excellence

- 1. Set High Standards for T&D System Operational Performance
- 2. Baseline T&D Operational Performance
- 3. Characterize the Gap Between the Desired Performance and the Current Performance
- 4. Zap the Gaps
- 5. Monitor, Track, Evaluate, and Report Key Performance Indicators
- 6. Repeat Tasks 3, 4, & 5 Until Standard is Met

Engineering is Responsible

Plan-Do-Check-Act Cycle

Maintaining Operational Excellence

- 1. Monitor, Track, Evaluate, and Report Key Performance Indicators
- 2. Determine Meaningful Deviations From Performance Standard
 - a. Poor Performance
 - b. Superior Performance
- 3. Bring Poor Performance Back to Standard
 - a. Determine Root Cause of Poor Performance
 - b. Revise O&M Practices to Prevent Future Poor Performance
 - i. Identify Materials/Products Contributing to Poor Performance
 - ii. Identify O&M Practices Contributing to Poor Performance
 - iii. Identify Construction Practices Contributing to Poor Performance
 - iv. Revise Procurement Specifications
 - c. Document
 - d. Train O&M Staff

- 4. Analyze Superior Performance
 - a. Determine Root Cause for Superior Performance
 - b. Revise O&M Practices to Achieve Future Superior Performance
 - i. Identify Materials/Products Contributing to Superior Performance
 - ii. Identify O&M Practices Contributing to Poor Performance
 - iii. Identify Construction Practices Contributing to Poor Performance
 - iv. Revise Procurement Specifications
 - c. Evaluate whether the Means to Achieve Superior Performance is Worth It
 - d. Document
 - e. Train O&M Staff
- 5. Repeat Tasks 1 through 4 Ensuring Standard is Met

Engineering is Responsible

Reset

- 1. After Maintaining Operational Standards for N Years, Reset the Standards Higher
- 2. Repeat Achieving Operational Excellence
- 3. Repeat Maintaining Operational Excellence

Engineering is Responsible

Setting High Standards for T&D System Operational Performance

Stretch Goals: The Power of No

• Reliability

In an Ideal World, this is what we want to achieve.

- No Customer Outages
- No Customer Power Quality Issues
- No Transmission System Equipment Failures
- No Distribution Circuit Element Failures
- No Cyber or Physical Security Compromises
- Safety
 - No Employees or Customers Hurt by T&D System
- Work Force Development
 - No T&D Employee will lack the equipment, knowledge, experience, and training necessary for the employee to perform excellently
- System Improvement
 - No Excuses for Not Planning in Depth and Breadth

Advanced Grid/Utility Analytics Project

- Not a Just Technology Project. Technology is Just an Enabler.
- It is a Value Creation Project Transforming Data into Actionable Information to make Better Enterprise-wide Operational and Strategic Decisions
- GPA is in the top 5% of utilities

Background

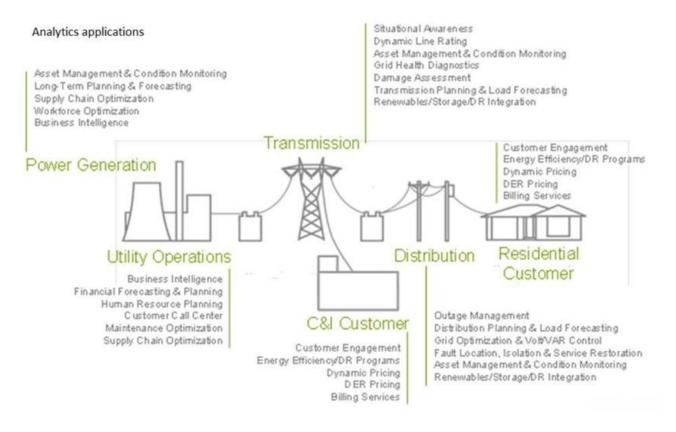
- The amount of Utility Data is exploding exponentially
 - The data deluge is a trend that affects all utilities, regardless of size or business model. In a quick check with investor-owned utilities, co-ops and municipal providers across multiple regions, all affirmed that the increase in data — and the opportunities it presents — are significant. --- UtilityDIVE
 - Figuring out how to manage those data could hold the key to new revenue streams and improved grid operation. --- UtilityDIVE
- Utility Analytics Institute survey results
 - Over half of utilities have "very limited use" for the data they are collecting
 - Almost 40% are "trying to figure out what to do with it"
 - Only 5% to 10% have "standardized data analytics tools and processes."

Enabling Infrastructure and Vision

 No utility does nothing with their smart meter data. But using it for billing or outage management doesn't get at the value that could come from using it for utility-wide analysis. It is more common that they don't have the vision to see the potential." --- Lauren Callaway, UtilityDive

Utility Analytics

- Categories
 - Grid Operations (Operational Effectiveness)
 - Asset Optimization (Asset Utilization)
 - Demand-Side Management (Energy Efficiency)
 - Customer Operations (Customer Service)
- Major Data Sources for Utility Analytics
 - Advanced Metering Infrastructure (AMI) System
 - Customer Information System (CIS)
 - Outage Management System (OMS)
 - Substation Automation (SA)
 - Mobile Workforce Management System (MWMS)
 - Supervisory Control And Data Acquisition (SCADA)



Source: Navigant

Advanced Grid Analytics

Phase	Phase Description			
1	GIS Model, Revenue Protection, Asset Loading, Voltage Visualization (Rev P/AL/VV)			
2	Voltage Monitoring, Reliability Planner (VM, Rel P)			
3	DER Planner, Capacity Contribution, Energy Diversion (DER, CC) **			

** Need to discuss Energy Diversion and need for installing some Distribution Transformer Monitors (DTM).





Using Grid Analytics to Achieve T&D Operational Excellence

Integrating AGA Into Daily Work Activities

- AGA Work Scripts
 - Model Maintenance
 - Steady State Overvoltage (Single-Phase)
 - Steady State Undervoltage (Single-Phase)
 - Three-Phase Customer Voltage Quality
 - Transformer Overloads
 - Transformer Sizing

Model Maintenance

- Engineering is responsible for maintaining the integrity of GIS, AGA, and OMS distribution system network models while consistently using these applications
- Engineering will perform this work continuously as it uses these applications on a daily basis
- Where there are issues with GIS information or the AGA models, Engineering shall perform field verification of information or create work orders for T&D to perform the verifications

Power Quality: Customer Service Voltage

- Steady State Overvoltage
- Steady State Undervoltage
- Three-Phase Customer Voltages
- Voltage Unbalance

Steady State Voltage Performance Standard

Steady State Voltage to Customer

ANSI C84.1 Voltage Limits (Service Voltage)

ANSI C84.1 Voltage Limits (Utilization Voltage)

Service Voltage (1)	Range A (2)(4)	Range B (2)(6)	Utilization Voltage
Maximum	5%	5.83%	Maximum (equipment rat
Minimum	-5%	-8.33%	Maximum (equipment rat
			Minimum

Utilization Voltage (6)	Range A (2)(4)	Range B (2)(6)	
Maximum (equipment rated >600 V)	5%	5.83%	
Maximum (equipment rated <600 V)	4.17%	5.83%	
Minimum	-8.33%(-10% (3))	-11.67%(-13.33%(3))	

- 1. Service voltage is measured at the point of common coupling between Customer and Company.
- 2. Voltage limits in % deviation from nominal
- 3. For circuits with no lighting equipment
- 4. Range A applies to normal operations
- 5. Range B applies for short duration and/or abnormal conditions on the utility system (excluding fault conditions and transients).
- 6. Utilization Voltage is measured at the equipment using the electricity

Range A versus Range B Voltage

- Range A (Favorable Zone)
 - Voltage range A is the "favorable" zone, in which the voltage level is near optimal.
- Range B (Tolerable Zone)
 - Voltage range B is the "tolerable" zone, in which the voltage level is acceptable but not optimal.
 - Range B includes voltage levels above and below range A limits that necessarily result from operating conditions. Although such conditions result in a practical system, they should be limited in extent, frequency, and duration.
 - Within reasonable timeframes, corrective measures should be taken to upgrade voltage levels in range B to those in range A.
 - For cases where sustained voltage levels will fall outside range B, utilization equipment may not operate satisfactorily, and protective devices may need to operate. Such cases should be considered temporary and subject to immediate improvement

Priority of Remedial Work (Under/Overvoltage)

- High Priority
 - Customer Service Voltage is outside of Range B
 - Prioritize work first by severity and then by duration
- Medium Priority
 - Prioritize by the duration and frequency customer service voltages are outside Range A and Within Range B
 - Duration is medium or long
 - Frequency is large
- Lower Priority
 - Customer Service Voltages are outside Range A and Within Range B
 - Duration is short
 - Frequency is small
- Engineering will define:
 - Short Duration versus Medium and Long Duration
 - Small Frequency versus Large Frequency

Steady State Overvoltage Work Script

- 1. Set AGA date filter to account for a one week (168 hour) period.
- 2. Set AGA voltage filter for customers experiencing 105% or more of nominal voltage.
- 3. Call up pie-chart of distribution of customers among GPA feeders. Save chart as a picture for use in report documentation.
- 4. Choose feeder with largest number of customers experiencing steady state overvoltage conditions.
- 5. Perform a distribution power flow (DPF) to determine if the model indicates overvoltage conditions. Save DPF results for use in report documentation.
- 6. If there is reasonable concurrence with DPF and actual voltage measurements, then proceed with step 8. Describe the reasonableness of concurrence and outline steps and insights into how it could be improved.
- 7. If there is not reasonable concurrence with DPF and actual voltage measurements, assign AGA model owners to verify model parameters and tweak the model to more accurately reflect measured voltages. Proceed with step 8.
- 8. Use AGA and field work to evaluate/analyze strategies for bringing customers to nominal voltages. Document this analysis, results, and recommendations.
- 9. Create T&D work orders for appropriate field investigations and remedial actions. Create project schedule for work
- 10. Follow up with work orders. Monitor, evaluate, and report project performance. Use Weekly Project Dashboard. Discuss weekly progress with Engineering Manager. Engineering Manager will brief AGMETS on progress fortnightly. Incorporate monthly progress into CCU report.
- 11. After various work orders are completed, evaluate feeder for overvoltage incidence improvements by repeating steps 1 and 2 for the specific feeder. Document whether there are improvements in performance.
- 12. After all work orders are completed, create a report comparing the before and after performance. Submit to Engineering Manager for review. Submit to AGMETS. Be prepared to present report. Discuss how to improve the process.
- 13. Repeat for steps 1 through 12.

Steady State Undervoltage Work Script

- 1. Set AGA date filter to account for a one week (168 hour) period.
- 2. Set AGA voltage filter for customers experiencing 85% to 95% of nominal voltage.
- 3. Call up pie-chart of distribution of customers among GPA feeders. Save chart as a picture for use in report documentation.
- 4. Choose feeder with largest number of customers experiencing steady state undervoltage conditions.
- 5. Perform a distribution power flow (DPF) to determine if the model indicates undervoltage conditions. Save DPF results for use in report documentation.
- 6. If there is reasonable concurrence with DPF and actual voltage measurements, then proceed with step 8. Describe the reasonableness of concurrence and outline steps and insights into how it could be improved.
- 7. If there is not reasonable concurrence with DPF and actual voltage measurements, assign AGA model owners to verify model parameters and tweak the model to more accurately reflect measured voltages. Proceed with step 8.
- 8. Use AGA and field work to evaluate/analyze strategies for bringing customers to nominal voltages. Document this analysis, results, and recommendations.
- 9. Create T&D work orders for appropriate field investigations and remedial actions. Create project schedule for work
- 10. Follow up with work orders. Monitor, evaluate, and report project performance. Use Weekly Project Dashboard. Discuss weekly progress with Engineering Manager. Engineering Manager will brief AGMETS on progress fortnightly. Incorporate monthly progress into CCU report.
- 11. After various work orders are completed, evaluate feeder for overvoltage incidence improvements by repeating steps 1 and 2 for the specific feeder. Document whether there are improvements in performance.
- 12. After all work orders are completed, create a report comparing the before and after performance. Submit to Engineering Manager for review. Submit to AGMETS. Be prepared to present report. Discuss how to improve the process.
- 13. Repeat for steps 1 through 12.

Voltage Unbalance Performance Standard

- Voltage Unbalance at Service Entrance
 - The voltage unbalance at the service entrance under no-load conditions should be limited to 3% or less (ANSI C84.1)
 - GWA 3-Phase Power Service
 - The voltage unbalance at the GWA motor terminals should be limited to 1% or less

Voltage Unbalance and GWA 3-Phase Motors

- Unless the motor is lightly loaded, the voltage unbalance should not exceed 1%. Voltage unbalance causes a more severe current unbalance that is 3, 6 or up to 8 times greater. Current unbalance will cause the motor to draw more current than it otherwise would. This in turn causes more heat. Heat deteriorates the motor's winding insulation.
- Voltage unbalance will eventually shorten the life of three-phase motors, which also reduces motor efficiency, causes current unbalance that leads to torque pulsations, increased vibrations, mechanical stresses, increased losses and motor overheating.
- NEMA recommends that voltage unbalances at the motor terminals do not exceed 1%. Unbalances over 1% require derating of the motor in accordance with Figure 20-2 of NEMA MG-1-2003, Revision 1-2004, and will void most manufacturers' warranties. That is because motors built to comply with the NEMA standard MG1 are designed to operate on voltage balanced to within 1%. Operating on a power supply with a larger voltage unbalance will increase the I²R losses (that is, current squared times resistance) in the rotor and stator, meaning more of the supplied power will be converted to heat and less to work. The motor therefore will run hotter and consequently, less efficiently. Increased rotor losses also will increase "slip", so the motor will turn a little more slowly and do less work in a given time.

Three-Phase Customer Service Voltage

- Range A and B voltage must apply to all phases of a three-phase system, even in the presence of voltage imbalance.
- Three-phase customer service voltage on each phase must fall within Range A voltage limits.
- Analysis of Three-Phase Customer Service Voltage and Voltage Imbalance will be performed on a case-by-case basis until AGA is upgraded in a new release to automate this analysis.

Transformer Loading

- Transformer Overloads
 - Engineering will Clarify the Standard
 - IEEE 242 recommends no more than 125%
- Severely Under Loaded Transformers
 - Severely Oversized Transformers

Transformer Overloads Work Script

- 1. Set AGA date filter to account for a one week (168 hour) period.
- 2. Set AGA transformer loading filter at 90% or greater of nominal rating.
- 3. Filter the results from highest to lowest loading. Analyze each transformer in the queue.
- 4. Is the overload reasonable or more likely an indicator that the GIS information is inaccurate?
 - a. If the latter, field verify the transformer ratings. Create a work order for the GIS Technicians to update their information. Proceed with the next highest overloaded transformer.
 - b. If the former proceed to step 5.
- 5. Create T&D work orders for appropriate field investigations and remedial actions. Create project schedule for work.
- 6. Follow up with work orders. Monitor, evaluate, and report project performance. Discuss weekly progress with Engineering Manager. Engineering Manager will brief AGMETS on progress fortnightly. Incorporate monthly progress into CCU report.
- 7. After all work orders are completed, create a report comparing the before and after performance. Submit to Engineering Manager for review. Submit to AGMETS. Be prepared to present report. Discuss how to improve the process.
- 8. Repeat for steps 1 through 7.

Line, Lateral, Fuse Overloads Work Script

- 1. Set AGA date filter to account for a one week (168 hour) period.
- 2. Set AGA Line, Lateral, Fuse loading filter at 90% or greater of nominal rating.
- 3. Filter the results from highest to lowest loading. Analyze each transformer in the queue.
- 4. Is the overload reasonable or more likely an indicator that the GIS information is inaccurate?
 - a. If the latter, field verify the equipment ratings. Create a work order for the GIS Technicians to update their information. Proceed with the next highest overloaded equipment.
 - b. If the former proceed to step 5.
- 5. Create T&D work orders for appropriate field investigations and remedial actions. Create project schedule for work.
- 6. Follow up with work orders. Monitor, evaluate, and report project performance. Discuss weekly progress with Engineering Manager. Engineering Manager will brief AGMETS on progress fortnightly. Incorporate monthly progress into CCU report.
- 7. After all work orders are completed, create a report comparing the before and after performance. Submit to Engineering Manager for review. Submit to AGMETS. Be prepared to present report. Discuss how to improve the process.
- 8. Repeat for steps 1 through 7.

Heavily Loaded Transformer Work Script

- 1. Set AGA date filter to account for a one week (168 hour) period.
- 2. Set AGA transformer loading filter at 60% to 90% of nominal rating. (ENG to recommend range)
- 3. Filter the results from highest to lowest loading. Analyze each transformer in the queue.
- 4. Create T&D work notices to avoid overloading transformers. Identify transformers for upgrade to higher rating on new loads.
- 5. Follow up with work orders. Monitor, evaluate, and report project performance. Discuss weekly progress with Engineering Manager. Engineering Manager will brief AGMETS on progress fortnightly. Incorporate monthly progress into CCU report.
- 6. After all work orders are completed, create a report comparing the before and after performance. Submit to Engineering Manager for review. Submit to AGMETS. Be prepared to present report. Discuss how to improve the process.
- 7. Repeat for steps 1 through 7.

Severely Under Loaded Transformer Work Script

- 1. Set AGA date filter to account for a one week (168 hour) period.
- 2. Set AGA transformer loading filter at 25% of nominal rating.
- 3. Filter the results from lowest to highest loading. Analyze each transformer in the queue.
- 4. Is the loading reasonable or more likely an indicator that the GIS information is inaccurate?
 - a. If the latter, field verify the transformer ratings. Create a work order for the GIS Technicians to update their information. Proceed with the next highest overloaded transformer.
 - b. If the former proceed to step 5.
- 5. Create T&D work orders for appropriate field investigations and remedial actions. Create project schedule for work
- 6. Follow up with work orders. Monitor, evaluate, and report project performance. Discuss weekly progress with Engineering Manager. Engineering Manager will brief AGMETS on progress fortnightly. Incorporate monthly progress into CCU report.
- 7. After all work orders are completed, create a report comparing the before and after performance. Submit to Engineering Manager for review. Submit to AGMETS. Be prepared to present report. Discuss how to improve the process.
- 8. Repeat for steps 1 through 7.

Vegetation Management Work Script

- 1. For an area cleared of vegetation, set date filter to account for a one week (168 hour) period prior to vegetation management work completion. For each customer in the area, count number of vegetation touch outage signatures.
- 2. For the same area, set date filter to account for a one week (168 hour) period after vegetation management work completion. For each customer in the area, count number of vegetation touch outage signatures.
- 3. Create a report comparing the before and after performance. Submit to Engineering Manager for review. Submit to AGMETS. Be prepared to present report. Discuss how to improve the process.
- 4. Repeat for steps 1 through 3.

GWA Power Quality Investigations

- Provide AGA Access to GWA Engineering Support Section
- Train GWA Electrical Engineering Section on AGA
- GPA Engineering & GWA Electrical Engineering Section
 - Coordinate Power Quality Investigations
 - Build and Document Processes for Power Quality Investigations
 - Assign Responsibilities

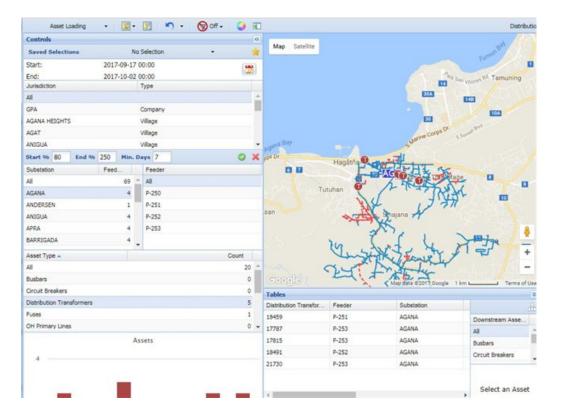
Meter Capabilities in support of GWA PQ GWA - L+G Q/A Session

- 1. Can the L&G smart meters be upgraded to monitor power quality at GWA sites. If so, can it record date/time, voltage, current, kW, and other information the meter detects surges/transients, unbalances and over/under-voltages exceeds safe operating range?
 - L+G Response
 - Record date/time Yes
 - Voltage, current, KW Yes
 - Surges/Transients Yes (using following options)
 - Sag and swells events and through interval data. If the average voltage over 1 DSP sample period (250ms on FAX, 200ms on S4x) is greater than a configurable threshold value in meter program, it can get logged as a sag/swell event.
 - D6 check: this checks for current imbalances (with configurable settings in the meter program).
 - D2 check: a voltage RMS magnitude check (with configurable settings in the meter program).
- 2. Can the minimum(s) and maximum(s) be programmed by GPA?
 - L+G Response
 - Believe they are asking about voltages. If so, yes!
- 3. When can we upgrade the meters? How much will it cost to upgrade?
 - L+G Response
 - It depends on their current versions of firmware and meter program configurations on the meters. If it is required for just 200 meters, then it shouldn't be a major work.

Action Items

- Engineering
 - Coordinate with Roel for immediate implementation
 - Incorporate AGA use into daily work
 - Execute Work Scripts
 - Overloads and System Model Cleaning
 - Work Orders Created by October 9, 2017
 - GIS information Corrected by October 9, 2017
 - Presentation to JohnB and Executive Team on or before Friday Morning, October 20, 2017
- Engineering will define work priority definitions:
 - Short Duration versus Medium and Long Duration
 - Small Frequency versus Large Frequency
- Roel
 - GWA Training (Mid October)
 - AGA Access for GWA (Immediately)
- GPA Engineering & GWA Engineering Support Section
 - Kick off these activities and set up timelines and milestones
 - Coordinate Power Quality Investigations
 - Build and Document Processes for Power Quality Investigations
 - Assign Responsibilities

Clear Agana Feeder Asset Overloads



- Five Potentially Overloaded Transformers identified
 - Perform Field Verification
 - Update GIS Information
 - Create T&D Work Orders
- Use AGA to determine other asset overloads
 - Perform Field Verification
 - Update GIS Information
 - Create T&D Work Orders
- Create Report and Deliver to JJC copy RAC

Clear Anigua Feeder Asset Overloads

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- Nine Potentially Overloaded Transformers
 identified
 - Perform Field Verification
 - Update GIS Information
 - Create T&D Work Orders
- Use AGA to determine other asset overloads
 - Perform Field Verification
 - Update GIS Information
 - Create T&D Work Orders
- Create Report and Deliver to JJC copy RAC

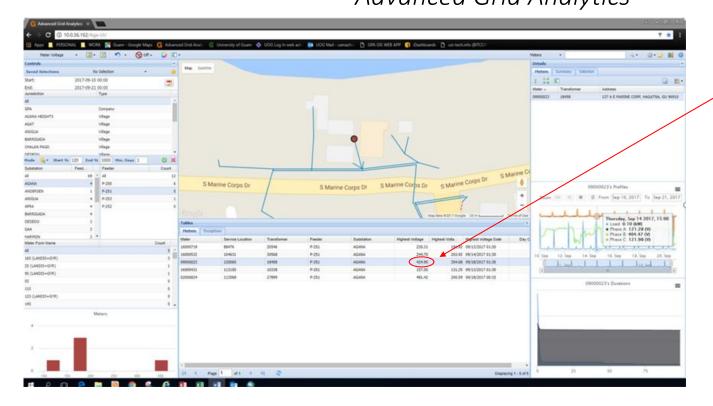
Execute Vegetation Management Work Script

• Execute the Vegetation Management Work Script for several areas recently cleared of vegetation.

Advanced Grid Analytics In Use

ltem	Issue	Date Identified	Engineering Action	Activity	Issue Closure	Problem or Failed Equipment
1	1 of 3 phases showing high voltage	2017 Sep 19	ENG alerted Van Quichocho @ Command Center; Van created trouble ticket	T&D troubleshooters changed out one defective transformer	2017 Sep 20	Transformer
2	Confirmation of Southern High School loading	2017 Oct 19	Verified loading to fuse the risers	Design	2017 Oct 19	Information for Design provided by AGA
3	Obtained P-111 lateral loading to Nikko for new Hotel	2017 Oct 19	To perform power flow and verify loading and assume spot load issues	Design	2017 Oct 19	Information for Design provided by AGA
4	Erratic Voltages	2017 Oct 27	ENG alerted Van Quichocho @ Command Center; Van created trouble ticket	Command Center (CC) performed meter testing and spoke with customer. CC concluded all was normal and the installed meter was faulty. Meter was changed out.	2017 Nov 03	Meter
5	High Voltage during daytime	2017 Nov 01	Evaluated power quality of surrounding customers on same xfmr and identified the source of high voltages are the solar company inverter.	GPA requested that the solar company evaluate its inverter regulation; not a GPA source issue	Resolution pending findings from solar company	Customer side issue
6	Extremely high voltage all the time 120/240; 324V per MDMS	2017 Nov 01	ENG alerted Van Quichocho @ Command Center; Van created trouble ticket	False meter reads, meter changed out	2017 Nov 06	Meter
7	Low Voltage	2017 Sep 17	Created WO to split load and installed new x-fmr	Split Load and installed new Xfmr	2017 Sep 17	Customer increased load over time such that the existing service and transformer was undersized for the new loads.

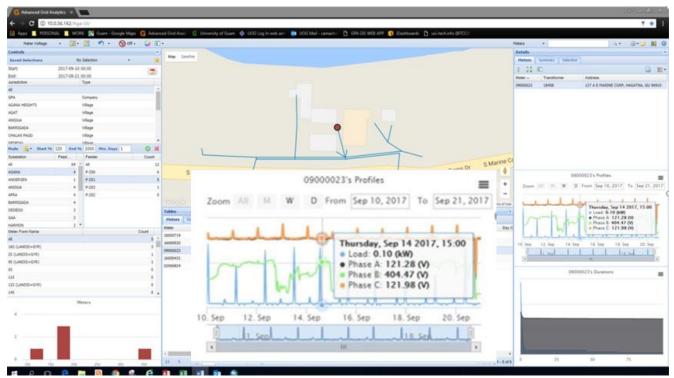
Item 1. Defective Transformer Bank Advanced Grid Analytics



 DEFECTIVE TRANSFORMER BANK – Voltage B shows high voltage. A trouble ticket was created and T&D investigated and replaced a damaged transformer. This is item 1 on the AGA troubleshooting spreadsheet.

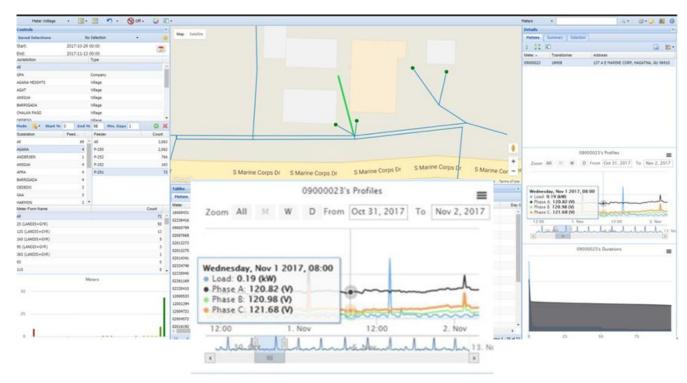
Item 1. Defective Transformer Bank Advanced Grid Analytics

BEFORE

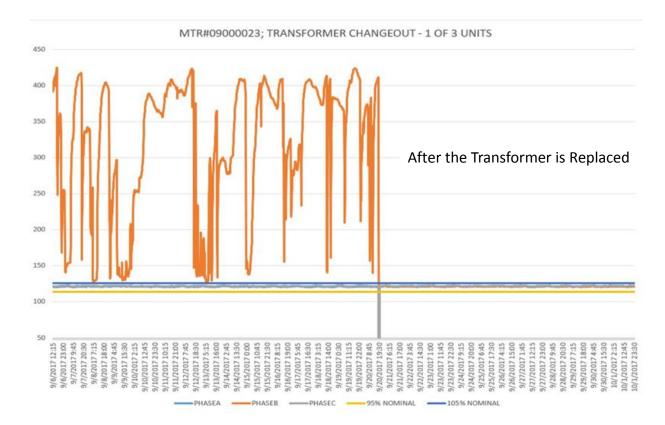


Item 1. Defective Transformer Bank Advanced Grid Analytics

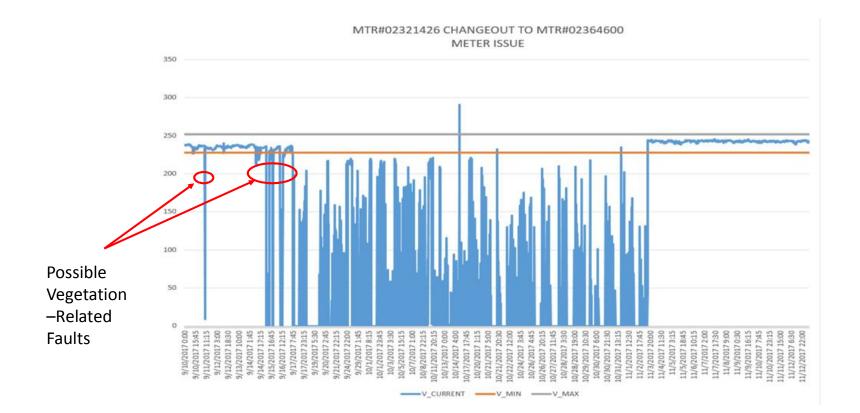
<u>AFTER</u>



Item 1. Voltages Before and After Transformer Change-out



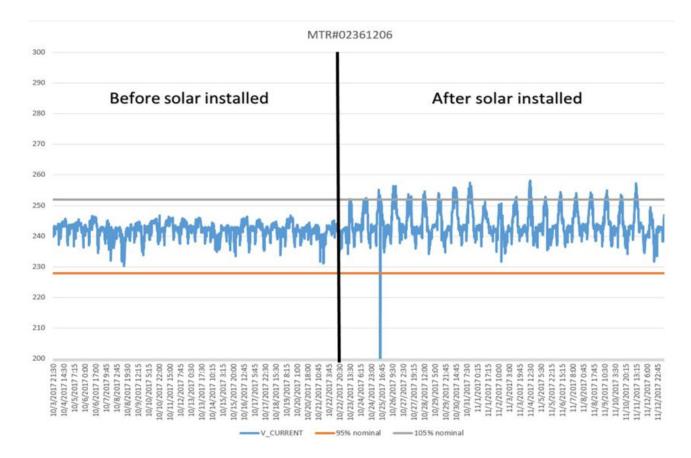
Item 4. Erratic Voltage – Meter found to be defective and replaced.



Item 5. INVERTER FAILURE TO REGULATE VOLTAGE (CUSTOMER SIDE) – High voltage during daytime hours for net metering customer. GPA Engineering asked customer to contact solar provider to check inverter regulation. No other customers affected.



Item 5. Graph showing effects of Solar Installation.



Enhanced Outage Detection

- Improves outage identification, root cause analysis and restoration
- Used by Operators, Planners, Engineering, and Customer Service
- Two methods for outage detection and analysis using meter events or using fault impedance method
- Utility operators can pinpoint to a more accurate outage location
- Identifies nested outages and assists operators and crews to reduce restoration time
- Includes Momentary Outage Tracking
 - Review/analyze momentary events , confirm and direct crews to reduce outage duration and improve restoration times..
 - Use momentary outages to properly calculate the outage index MAIFI.
 - Momentary outages caused by tree branches touching circuits can also be analyzed to predict and prevent outages

Internal Audit Use of AGA

	GUAM POWER AUTHORITY INTERNAL AUDIT - REVENUE PROTECTION SERVICE									
		vestigated Cases from AGA Ale								
No.	INVESTIGATION DATE	Reference (WO/MFI)	IAO-RPS MAIN FINDINGS							
1	7/5/17	AGA	Unregistered Net Metering							
2	7/5/17	AGA	Unregistered Net Metering							
3	7/6/17	AGA	Unregistered Net Metering							
4	9/12/17	AGA Stopped Meter Report	No Issues Noted Upon Inspection. Customer may have been Off-Island							
5	9/12/17	AGA Stopped Meter Report	Vacant Unit							
6	9/13/17	AGA Stopped Meter Report	Vacant Unit							
7	9/13/17	AGA Slowed Meter Report	Work Order Close Out in CC&B Not Yet Completed							
8	11/8/2017	AGA Stopped Meter Report	Vacant Unit							
9	11/8/2017	AGA Tamper/Reverse Energy Flow Alert	Unregistered Net Metering							
10	11/8/2017	AGA Tamper/Reverse Energy Flow Alert	Unregistered Net Metering							
11	11/8/2017	AGA Tamper/Reverse Energy Flow Alert	Not Used (Under Renovation)							
12	11/8/2017	AGA Tamper/Reverse Energy Flow Alert	Vacant Unit							

Some Examples of Investigations Triggered by AGA Revenue Protection Module





Outage Management System





A. E. Balajadia Consulting

Renewable Energy Integration Study

GPA Grid Operational Standards

- Submitted 17 proposed standards for GPA review and modification if required prior to adoption.
- Standards are critical for system design and operation
- Standards form the basis for IPP operation requirements
 - Must be submitted as part of New Generation Bid Package
- Standards form the basis for how GPA is required to operate and plan the system for IPP integration into the grid

GPA Standards

• Proposed Standards:

- GPABAL-001 -> Steady-State Frequency Control AK base
- GPABAL-001 -> Steady-State Frequency Control Hi base
- GPABAL-002 -> Disturbance Control Performance Ak Base
- GPABAL-002 -> Disturbance Control Performance Hi Base
- GPABAL-003 -> Frequency Response & Bias
- GPABAL-005 -> Automatic Generation Control
- GPABAL-502 -> Resource Adequacy & Evaluation
- GPATPL-001-4 -> Transmission Planning Performance Requirements
- GPAPRC-006 -> Underfrequency Loadshedding
- GPAMOD-025 -> Real and Reactive Power Verification
- GPAMOD-026 -> Excitation Verification & Modeling
- GPAMOD-027 -> Governor Verification & Modeling
- GPAMOD-032 -> Data for Power System Modeling & Analysis
- GPAMOD-033 -> Steady-State & Dynamic System Model Validation

Renewable Study

- Have completed much of renewable study
- Issues with adding renewables beyond existing are:
 - Inadequate Short Circuit Current
 - Response of existing units
 - Minimum operating limits of existing units
 - Long-fault clearing times on 35 kV
 - Long-fault clearing times on 115 kV
 - Fault Induced Delayed Voltage Recovery (FIDVR)
 - No AGC control
 - Lack of load at Solar PV Peak

Renewables – Going Forward

- Flexible generation must replace existing GPA base-loaded units
- AGC control on all PV, ESS, and thermal generation
- Load-shifting batteries on future PV
- Some additional PV could be absorbed in afternoon
- Synchronous condensers required to add Short Circuit (SC) strength
- Faster fault clearing times on 34.5 kV and 115 kV lines
 - Fiber Optics Communications Between Substation
 - 5 cycle or less clearing times required
- Synchronous condensers may be required at different locations
- "Micro-Grids" using PV must include synchronous condenser or generation

NEMS

- Increase in NEMS either reduces station PV or increases ESS requirements
- NEMS increase may require changes to regulators or LTCs, but forecast levels are not high enough to be considered an issue
- Only 15 MW of NEMS forecast in the next 10 years

Station PV

- Almost all station PV beyond Phase II will require ESS load-shifting
- To reduce Short-circuit requirement, future PV should be connected to a common DC buss with ESS
- All energy scheduled through ESS via AGC
- ESS filters all PV variations from GPA generation
- Phase III + IV PV/ESS could reach 180 MW
 - This is ESS capacity limited
 - PV capacity can be greater than ESS capacity
- ESS systems will be by far largest in world
- GPA to complete production cost simulations on economic limits

Station PV

- GPA system will have extremely low Short-Circuit Ratio (SCR)
 - GPA system has a low SCR
- SCR > 2.0 is required for reliable operation of PV/ESS inverters
- Manufacturers must show inverters can operate with the forecast SCR of the GPA system
- Manufacturers must provide simulations and models to ensure inverters operate and do not interfere with other inverters
- Will be a technical challenge
- Technical challenge will not be near as hard as the administrative challenge

New Flexible Generation

• Without New Flexible Generation, GPA will have to terminate future renewable energy projects

Future Generation

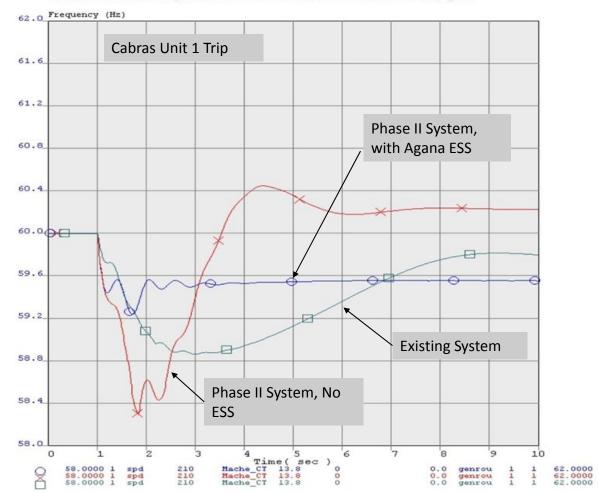
- Could be significant system benefit with a Navy/GPA Orote plant with efficient unit and/or synchronous condenser
- Generation must have low minimums/ fast start times
- Generation must have high ramp rates available through AGC
- Synchronous condenser option may be beneficial
- Centralized power plant may present some challenges (115 KV Faults) that requires additional consideration
- Either new generation or synchronous condensers must be in place prior to Phase III
- Curtailment or synchronous condensers may be required for Phase II

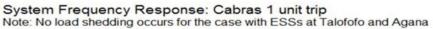
Transmission Improvements

- Improved relaying on all 34.5 kV/115 kV lines
- Only minor issues identified with existing loads
- Waiting on future loads
- Significant improvements not identified with existing loads
- However, centralized generation presents some challenges not addressed yet.

Transmission Improvements

- Improved relaying on all 34.5 kV/115 kV lines
- Only minor issues identified with existing loads
- Waiting on future loads
- Significant improvements not identified with existing loads
- However, centralized generation presents some challenges not addressed yet.





Summary

- Once started, system improvements associated with renewables must be completed
- Improvements required for renewables will help system today but are required after renewable addition.
- GPA can accept renewables up to the economic limit, with mitigating measures.
- These improvements will
 - Virtually eliminate Under frequency Load Shedding
 - Improve Power Quality
 - Improve System Stability
 - Increase the Amount of Renewable Energy the GPA System can Accommodate.

CUSTOMER SERVICE CREDIT COLLECTION Bankruptcy Report FY 2018

Prepared by:_____

Carla Cruz

Approved by:_____

Jamie Pinaula

MONTH		Octob	er 31, 2017	Grand Total	as of October 2017	Nove	mber 30, 2017	Grand Tot	al as of November 2017	Dec	cember 31, 2017	Grand Total	as of December 2017
Chapter		No. of Acct.	Bankruptcy Amount	No. of Acct.	Bankruptcy Amount	No. of Acct.	Bankruptcy Amount	No. of Acct.	Bankruptcy Amount	No. of Acct.	Bankruptcy Amount	No. of Acct.	Bankruptcy Amount
7	FISCAL YEAR												
11	2018	1	\$47,917.79	1	\$47,917.79								
13	2010												
Total		1	\$47,917.79	1	\$47,917.79	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00

MONTH	Bal	ance Forward	Janua	ry 31, 2018	Grand Tota	l as of January 2018	Febr	ruary 28, 2018	Grand Tot	tal as of February 2018	N	/arch 31, 2018	Grand Total	as of March 2018
Chapter	No. of Acct.	Bankruptcy Amount	No. of Acct.	Bankruptcy Amount	No. of Acct.	Bankruptcy Amount	No. of Acct.	Bankruptcy Amount	No. of Acct.	Bankruptcy Amount	No. of Acct.	Bankruptcy Amount	No. of Acct.	Bankruptcy Amount
7														
11														
13														
Total	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00

MONTH	Bala	ance Forward	April	l 30, 2018	Grand Total a	is of April 2018	M	ay 31, 2018	Grand 1	Total as of May 2018		June 30, 2018	Grand Total	as of June 2018
Chapter	No. of Acct.	Bankruptcy Amount	No. of Acct.	Bankruptcy Amount	No. of Acct.	Bankruptcy Amount	No. of Acct.	Bankruptcy Amount	No. of Acct.	Bankruptcy Amount	No. of Acct.	Bankruptcy Amount	No. of Acct.	Bankruptcy Amount
7														
N/A														
Total	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00

MONTH	Bala	ance Forward	July	31, 2018	Grand Tota	as of July 2018	Aug	gust 31, 2018	Grand Tota	al as of August 2018	Sep	tember 30, 2018	Grand Tota	I as of September 2018
Chapter	No. of Acct.	Bankruptcy Amount	No. of Acct.	Bankruptcy Amount	No. of Acct.	Bankruptcy Amount								
7														
11														
13														
Total	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00

GPA Work Session - November 21, 2017 - DIVISION REPORTS

MTD CONSOLIDATED REPORT

APPROVED BY: E.D.MENDIOLA (CSS)

DATA: CSD PERSONNEL WORK ACTIVITIES COMPILED BY: V.M. CEPEDA

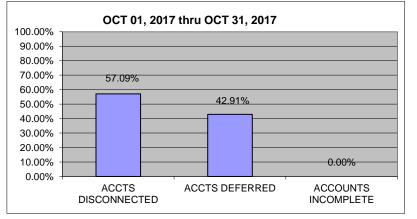
REPORTING MONTH: OCTOBER 2017

BUSINESS OFFICE/ SATELLITE EMPLOYEE MTD (CONSOLIDATED) REPORT TRANSACTION (TYPE)	GLORIA B. NELSON	% MTD	HAGATNA	% MTD	UPPER TUMON	% MTD	MTD TOTAL
APPLICATION							
NEW INSTALL-PERMANENT (NI1)	13	72%	0	0%	5	28%	18
NEW INSTALL- TEMP (NI2)		73%	0	0%	3	20%	11
NEW INSTALL - ST LIGHT (NI3)	2	40%	3	60%	0	0%	5
REC W/OUT METER (NI4)	5	28%	8	44%	5	28%	18
REC W/METER (NI5)	99	25%	131	33%	173	43%	403
NON METERED ACCT (NI6)	0	0%	I	100%	0	0%	1
NAME CHANGE (NC1)	89		82	32%	88	34%	259
NAME CHANGE ST LIGHT (NC2)	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0
TERMINIATION							-
TERMINATION REGULAR (TE1)	90	25%	109	30%	162	45%	361
TERMINATION N/C (TE2)	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0
TERMINATION NON/PAYMENT (TE3)	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0
TERMINATION TYPHOON (TE4)	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0
TERMINATION REMOVAL (TE5)	0	0%	-	100%	0	0%	I
TERM (TE6)	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0
OTHER(S)							
WORK CLEARANCE (WC)	37	73%	0	0%	14	27%	51
INVESTIGATION (INV)	1	20%	I	20%	3	60%	5
METER C/O - CALIBRATION (MC1)	0	0%	0	0%	I	100%	1
METER UP/DOWN GRADE (MC3)	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0
MTR RDR FIELD INVESTIGATION (MF1)	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0
MISC PUBLIC SRVC (MPS)	26	60%	4	9%	13	30%	43
REFUND (RFD)	15	45%	4	12%	14	42%	33
RELOCATE METER (RM1)	10	83%	I	8%	1	8%	12
ST LIGHT REPAIR (ST1)	16	100%	0	0%	0	0%	16
OFFICIAL RECEIPT (OR)	П	5%	81	33%	151	62%	243
UPDATE SPECIAL CHARGE (USC)	17	8%	33	15%	169	77%	219
INSPECTION REPORT (IR)	1	4%	4	16%	20	80%	25
COPY OF BILL (COB)	426	28%	410	27%	697	45%	1533
BILL INQUIRY (BILL INQ)	563	26%	877	41%	702	33%	2142
BILL ADJUSTMENT (BILL ADJ)	2	25%	3	38%	3	38%	8
ADDRESS CHANGE (ADDR CHG)	36	23%	62	39%	62	39%	160
DEFERRED PAYMENT AGREEMENT (DPA)	6	55%	2	18%	3	27%	11
ACTIVE DELINQUENTS							
INQUIRY (INQ)	214	31%	297	42%	188	27%	699
PAYMENT (PYMT)	193	43%	205	46%	48	11%	446
DO NOT DISCONNECT (DND)	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0
EXTENSION (EXT)	196	38%	166	32%	160	31%	522
RECONNECT(REC)	133	71%	30	16%	24	13%	187
RETURNED CHECKS	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0
INACTIVES							0
INQUIRY (INQ)	15	21%	39	55%	17	24%	71
PAYMENT (PYMT)	10	37%	17	63%	0	0%	27
TRANSFER BALANCE (TRF BAL)	2	8%	6	24%	17	68%	25
SMALL CLAIMS	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0
TOTAL TRANSACTION(S)	2236		2577		2743	192	7556
						192	
VISIT (V)	1511	31%	1534	32%	1788	37%	4833
							142
TELEPHONE (T) MAIL (M)	56	39%	30	21%	56 243	39%	647
. ,							72
FAX (F) TRANSFER CALL (TRF CALL)	47 29	65% 64%	25	35%	0	0%	45
OTHER (OTHER)	29 67	64%	13	41%	3	43%	43
	87 1894	17%	165	41%	2263	43%	6144
	1074		1707		2203		0144
		SF	RVICE LEVE	L			
LESS THAN 10 MINUTES	1574	37%	1100	L	1532	36%	4206
10-15 MINUTES	183	12%	720	47%	623	41%	1526
16-30 MINUTES	103	34%	120	47%	76	26%	297
> 30 MINUTES	36	34%	47	40%	32	28%	115
TOTAL SERVICE LEVEL	1894	51/6	1987	41/6	2263	28%	6144
	1074		1,87		1203		0144

NOTE: INQUIRY TYPE (OTHERS) = INCLUSIVE OF DESK WORK (E.G., NON PAYMENT COMPLETIONS, COMMERCIAL COMPLETIONS, ETC.)

NON PAYMENT "ACTIVE DELINQUENTS" (SINGLE PHASE) OCT 01, 2017 - OCT 31, 2017

DATE	ACCTS SCHEDULED	ACCTS DISCONNECTED	ACCTS DEFERRED	ACCOUNTS INCOMPLETE
OCTOBER	550	314	236	0
TOTALS:	550	314	236	0
		57.09%	42.91%	0.00%



Justifications:

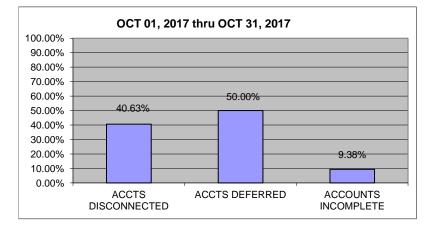
Deferred: Cust. placed on Installment Payment Agreement - DND due to account payments received /posted. Accts. Incomplete: Inaccessible (Gate/Door Locked/ Dog Hazard), requires legible sketch, no file, insufficient time due to work priorities caused by call In(s) thus hampering work assignments.

Note: Command Center under went upgrade

Prepared by: Nadine R Blake, CSR Approved by: Jaime C. Pinuala, CSS

NON PAYMENT "ACTIVE DELINQUENTS" (3 PHASE) OCT 01, 2017 - OCT 31, 2017

DATE	ACCTS SCHEDULED	ACCTS DISCONNECTED	ACCTS DEFERRED	ACCOUNTS INCOMPLETE
OCTOBER	32	13	16	3
TOTALS:	32	13	16	3
		40.63%	50.00%	9.38%



Justifications:

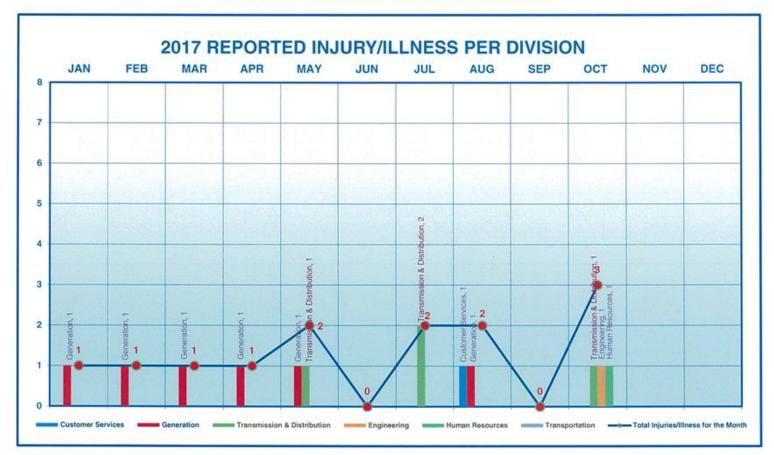
Deferred: Cust. placed on Installment Payment Agreement - DND due to account payments received /posted. Accts. Incomplete: Inaccessible (Gate/Door Locked/ Dog Hazard), requires legible sketch, no file, insufficient time due to work priorities caused by call ln(s) thus hampering work assignments.

Note: Command Center under went upgrade

Prepared by: Nadine R Blake, CSR Approved by: Jaime C. Pinuala, CSS

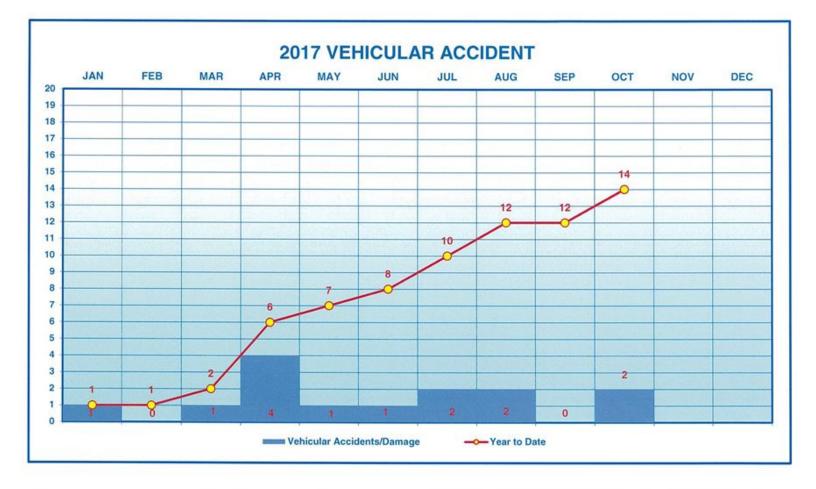
Run Date: 11/3/2017 Run Time: 4:00:09PM	Re	sidential	Delinquen	m Power Authori It Accounts S IVE ACCOUNT	ummary			Report ID: DELF Page 1 of 1	ATIO
Rate	Total	Del	Current Bill	28-45 days	4 <u>6-60 days</u>	61-90 davs	Over 90 days	Total Arrears	Total Due
<u>Classification</u>	<u>Cust</u> 43,081	<u>Cust</u> 3,733 8. 6 7%	615,230.42	387,200.04 2,437 5. 6 6%	117,113.96 846 1.96%	39,970.18 387 0.9 0 %	16,841.62 63 0.15%	561,125.80	1,176,356.22
Small Gen Non-Dem	4,005	275 6.87%	97 ,171. 9 9	66,310.4 9 168 4.19%	16, 07 9.87 56 1,40%	14,818.58 36 0,90%	52,743.24 15 0.37%	149,952.18	247,1 2 4.17
Small Gen Demand	96 0	64 6.67%	125,696.64	4.13% 117,127.57 40 4.17%	46,616.25 14 1.46%	13,423.62 5 0.52%	181,842.01 5 0 .52%	359,009.45	484,706.09
Large General	113	4 3.54%	214,212.48	4.17 % 511,149.88 4 3.54%	0.00	0.00 0 - %	0. 0 0 0 - %	511,149.88	725,362.36
Private Street Light	523	59 11.28%	853.11	486.43 17 3.25%	428.35 14 2.68%	421.96 20 3.82%	1,222.54 8 1.53%	2,559.2 8	3,412.39
Sub Total (Private)	48,682	4,135	1,053,164.64	1,082,274.41	180,238.43	68 ,634.34	252,649.41	1,583,796.59	2,636,961.23
		8.49%		2,666	930	448	91		
				5.48%	1.91%	0.92%	0.19%		0.500.05
Small Gov Non-Dem	56	6 10.71%	6.20	2,586.05 6 10.71%	0.00 0 - %	0.0 0 0 - %	0.00 0 - %	2,586.05	2,592.25
Small Gov Demand	47	7 14.89%	77. 0 9	12,777.09 7	0.00 0 - %	0.00 0 - %	0. 0 0 0 - %	12,777.09	12, 8 54.18
Large Government	15	1 6.67%	0.00	14.89% 20,176.17 1 6.67%	- % 0.00 0 - %	0.00 0 - %	0.00 0 - %	20,176.17	20,176.17
Gov Street Light	32	5 15.63%	63.5 0	4,459.02 5 15.63%	0.00 0 - %	0.00 0 - %	0.00 0 - %	4,459.02	4,522.52
Sub Total (Govt)	150	19	146.79	39,998.33	0.00	0.00	0.00	39,998.33	40,145.12
		12.67%		19	0	0	0		
				12.67%	0.00%	0.00%	0.00%		
GRAND TOTAL	48,832	4,154	1,053,311.43	1,122,272.74	180,238.43	68,634.34	252,649.41	1,623,794.92	2,677,106.35
		8.51%		2,685	930	448	91		
				5.50%	1.90%	0.92%	0.19%	1	

SAFETY DIVISION MONTHLY REPORT



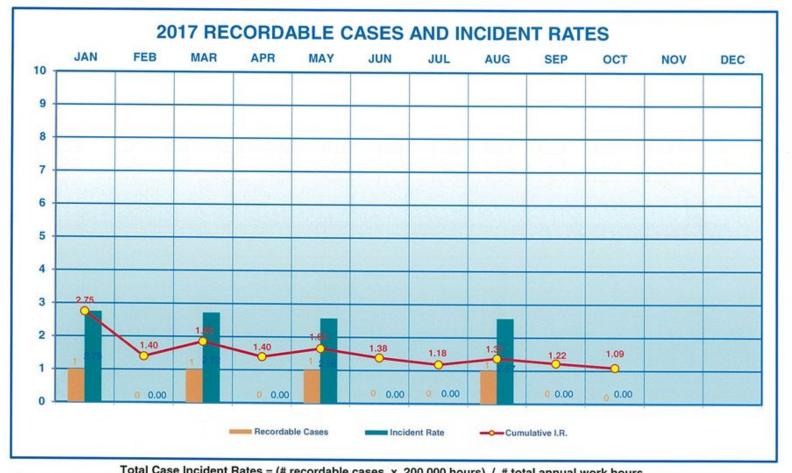
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Customer Services							1	1				
Generation	1	1	1	1	1			1				
Transmission & Distribution				1	1		2			1		
Human Resources										1		
Engineering				-		1				1		
Transportation												
Total Injuries/Illness for the Month	1	1	1	1	2	0	2	2	0	3		

SAFETY DIVISION MONTHLY REPORT



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ост	NOV	DEC
Vehicular Accidents/Damage	1	0	1	4	1	1	2	2	0	2		
Year to Date	1	1	2	6	7	8	10	12	12	14		
Accidents attributed to Employee fault	1	0	0	3	1	1	2	2	0	1		





Total Case Inc	ident Rates = (# recordable cases	x	200,000 hours)) /	# total annual work hours
----------------	-----------------	--------------------	---	----------------	-----	---------------------------

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Recordable Cases	1	0	1	0	1	0	0	1	0	0		
Incident Rate	2.75	0.00	2.72	0.00	2.56	0.00	0.00	2.57	0.00	0.00		
Cumulative I.R.	2.75	1.40	1.85	1.40	1.65	1.38	1.18	1.37	1.22	1.09		

CUSTOMER SERVICE DIVISION - Oct 2017

SITE	Less than 10 Mins.	%	10-15 Mins.	%	15-30 - Mins.	%	30-45 Mins.	%	TOTAL	Location %
GBN	1.574	83%	183	10%	101	5%	36	2%	1,894	31%
HAGATNA	1,100	55%	720	36%	120	6%	47	3%	1,987	32%
UPPER TUMON	1,532	68%	623	28%	76	3%	32	1%	2,263	37%
TOTAL:	4,206	68%	1,526	25%	297	5%	115	2%	6,144	100%

SUMMARY REPORT

<u>Government Accounts Receivable</u>: CSD reports invoices for the month of September 2017, for 71 active government accounts with an overall total of \$4,300,222. 85. 67 accounts were current (94%), 4 account arrears (6%). 4 fax/emails issued to government accounts totaling \$1,203,677.53. September 2017 invoices, 67 accounts paid in full.

CREDIT AND COLLECTION

<u>Delinquent Ratio</u>: As of Oct 2017 the authority reported a total 48,682 active customers. The "Delinquent Ratio" was recorded at 8.49% with 4,135 total delinquent accounts, total arrears of 1,583,796.59; 1,082,274.41; 2,666 (5.48% / 28-45 days) category; 180,238.43; 930 (1.91% / 46-60 days); 68,634.34; 448 (0.92% 61-90 days); and 252,649.41; 91 (0.19% / Over 90 days).

<u>Return Check(s)</u>: During Oct 2017, 100 returned checks (114 customer accounts), were received valued at \$49,307.90 of this, 87 checks were cleared amounting to \$37,139.87. The remaining 27 accounts totaling \$12,168.03 were scheduled for disconnection. Customer accounts that were not paid or reconnected were terminated and are pursued through inactive collection efforts (small claims).

Bankruptcy: During Oct the Bankruptcy reports eight (8) customer accounts filed, totaling \$47,917.79, Chapter 11.

<u>Damage Claim</u>: The Damage claim committee received two (2) Damage claim at \$1,465.00 for the month of October 2017.

COMMAND CENTER

<u>Meter Changed Outs</u>: For the month of Oct 2017, there were a total of sixty-four (64) meters changed outs due to defective meter non-communicating.

ACTIVE DELINQUENT - NON PAYMENT

COMMAND CENTER /DISCONNECTIONS/RECONNECTIONS/

<u>Single Phase Meters</u>: Credit and Collection issued orders to Command Center to perform remote disconnect/reconnect for a total of 550 customers; 314(57%) were disconnected; 236(43%) deferred; 0(0%) incompletes.

<u>3 Phase Meters</u>: Credit and Collection issued orders to Disconnect Reconnect crew to perform truck roll out disconnect/reconnect for a total of 32 customers; 13(41%) were disconnected; 16(50%) deferred; 3(9%) incompletes.

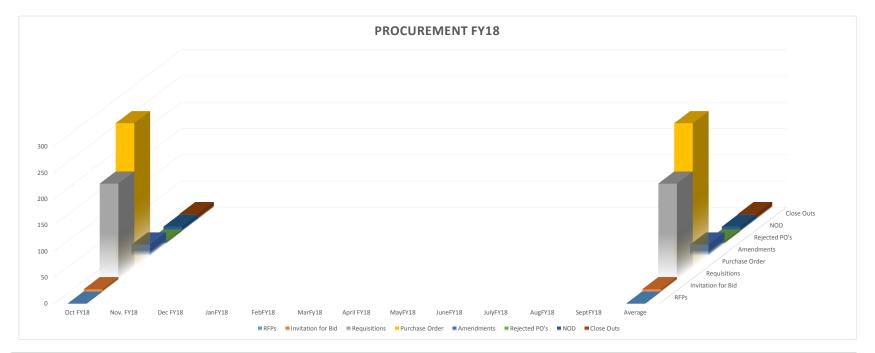
			FY	2018 (Oct	01-31,201	7)		
	Scheduled	Disc	Deferred	Complete Vs. Scheduled	Incomplete Disconnections	Disc Vs. Scheduled	Deferred Vs. Scheduled	Incomplete Vs. Scheduled
Oct-17	582	327	252	579 99%	3	56%	43%	1%
TOTAL:	582	327	252	579	3	56%	43%	1%
	F	FY 201	7 (Octob	er 01, 20	16 - Septem	ber 30, 2	2017)	
QTR	Scheduled	Disc	Deferred	Complete Vs. Scheduled	Incomplete Disconnections	Disc Vs. Scheduled	Deferred Vs. Scheduled	Incomplete Vs. Scheduled
4 th	3,621	2,067	1,553	3,620 100%	1	57%	43%	0%
	4.004	2,683	1,332	4,015	6	67%	33%	0%
3rd	4,021	2,005		100%				
3rd 2nd	4,021 5,125	3,053	2,055	5,108 100%	17	60%	40%	0%
				5,108	17 36	60% 54%	40% 46%	0% 0%

This concludes the Summary Report for Customer Service Division for the month of Oct 2017.

Respectfully submitted, Marissa Fernandez, Admin. Officer

Reviewed / Approved by: Mercy A. F. Castro, USA





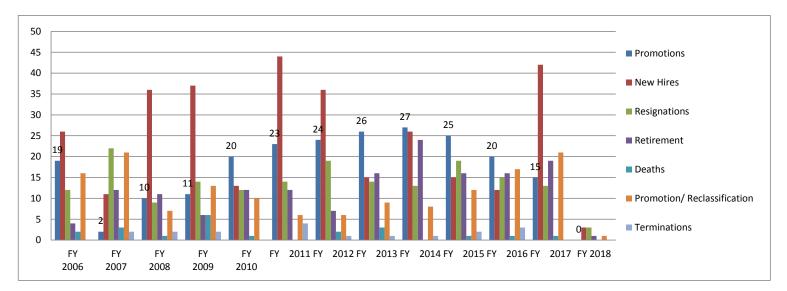
	Oct FY18	Nov. FY18	Dec FY18	JanFY18	FebFY18	MarFy18	April FY18	MayFY18	JuneFY18	JulyFY18	AugFY18	SeptFY18	Average
RFPs	1												1
Invitation for Bid	5												5
Requisitions	183												183
Purchase Order	275												275
Amendments	21												21
Rejected PO's	4												4
NOD	9												9
Close Outs	10												10

Fiscal Year	Promotions	New Hires	Resignations	Retirement	Deaths	Promotion/ Reclassifi- cation	Termina- tions	Total Author- ized FTE	Attrition Rate	Total Filled FTE at end of Fiscal Year	Percentage of Filled FTE at end of Fiscal Year
2006	19	26	12	4	2	16	0	584	3.3%	536	91.8%
2007	2	11	22	12	3	21	2	584	7.2%	510	87.3%
2008	10	36	9	11	1	7	2	592	4.5%	525	88.7%
2009	11	37	14	6	6	13	2	592	5.3%	534	90.2%
2010	20	13	12	12	1	10	0	592	4.7%	522	88.2%
2011	23	44	14	12	0	6	4	592	5.7%	536	90.5%
2012	24	36	19	7	2	6	1	568	5.4%	543	95.6%
2013	26	15	14	16	3	9	1	568	6.3%	524	92.3%
2014	27	26	13	24	0	8	1	568	7.3%	512	90.1%
2015	25	15	19	16	1	12	2	539	7.4%	489	90.7%
2016	20	12	15	16	1	17	3	510	7.2%	466	91.4%
2017	15	42	13	19	1	21	0	510	7.1%	476	93.3%
2018	0	3	3	1	0	1	0	510	0.8%	475	93.1%

RECRUITMENT ANALYSIS

Recruitment Analysis (FY 2018) ..1 of 2

as of 10/31/17



	FY												
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Promotions	19	2	10	11	20	23	24	26	27	25	20	15	0
New Hires	26	11	36	37	13	44	36	15	26	15	12	42	3
Resignations	12	22	9	14	12	14	19	14	13	19	15	13	3
Retirement	4	12	11	6	12	12	7	16	24	16	16	19	1
Deaths	2	3	1	6	1	0	2	3	0	1	1	1	0
Promotion/ Reclassification	16	21	7	13	10	6	6	9	8	12	17	21	1
Terminations	0	2	2	2	0	4	1	1	1	2	3	0	0

	TOTAL NO. OF EMPLOYEES	536	510	525	534	522	536	543	524	512	489	466	476	475
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Recruitment Analysis (FY 2018) .. 2 of 2

as of 10/31/17

GUAM POWER AUTHORITY HUMAN RESOURCES DIVISION STAFFING REPORT (FY 2018) AS OF OCTOBER 31, 2017

	B1	B2	С	D	E	F	G	Н	I	(B1+H=K)
	ACTIVE	LAST	PROMOTE	PROM.	NEW	RESIGN /		CURR	LAST	TOTAL
DIVISION	EMP	EMP	/TRANS	RECLASS	HIRES	TERM	RETIRE	VAC	VAC	STAFFING
INTERNAL AUDIT/REVENUE PROTECTION	3	3	0	1	0	0	0	1	1	4
BOARD(10200)	2	2	0	0	0	0	0	0	0	2
GENERAL MANAGER (CUS) [10100]	0	0	0	0	0	0	0	0	0	0
GENERAL MANAGER (20500)	4	4	0	0	0	0	0	0	0	4
PUBLIC INFORMATION OFFICE	2	2	0	0	0	0	0	0	0	2
ASSIST GM-ENG/TECH SVCS (30500)	1	1	0	0	0	0	0	0	0	1
ASSISTANT GENERAL MGR (30800)	1	1	0	0	0	0	0	1	1	2
ASSISTANT GENERAL MGR (AGMO) 50900	2	2	0	0	0	0	0	0	0	2
STRAT PLANN & OPTNS RESEARCH DIV	10	10	0	0	0	0	0	1	1	11
FACILITIES	9	9	0	0	0	0	0	0	0	9
HUMAN RESOURCES	10	10	0	0	0	0	0	0	0	10
CUSTOMER SERVICES	35	35	0	0	0	1	0	3	2	38
INFORMATION TECHNOLOGY	15	14	0	0	1	0	0	1	2	16
FINANCE	42	42	0	0	0	0	0	4	4	46
PROCUREMENT	21	21	0	0	0	0	0	1	1	22
TRANSPORTATION	9	9	0	0	0	0	0	2	2	11
SAFETY	6	6	0	0	0	0	0	1	1	7
PLANNING & REG	8	7	0	0	1	0	0	0	1	8
ENGINEERING	37	37	0	0	0	0	0	2	2	39
GENERATION	138	140	0	0	0	1	0	6	5	144
TRANSMISSION/DISTRIBUTION	98	100	0	0	0	1	1	9	7	107
POWER SYSTEM CONTROL CENTER	22	21	0	0	1	0	0	3	4	25
	475	476	0	1	3	3	1	35	34	510
JOBS/SCSEP/GETP PARTICIPANTS	1	1								1
APPRENTICESHIP PROGRAM	0	1								0
SUMMER ENGINEERING INTERNS	0	0								0
TEMPORARY (P.L. 34-32)	1	1								1
GRAND TOTAL WORKFORCE:	477	479	0	1	3	3	1	35	34	512

FTE Count per FY18 FMP: 510

Current vacancies adjusted to reflect FTE of 510

** JOBS = Job Opportunities and Basic Skills (individuals under the Public Health assistance program)

** GETP = Guam Employment & Training Program (individuals under the Public Health assistance program)

** SCSEP = Senior Community Service Employment Program

** APPRENTICESHIP TRAINING PROGRAM - Generation, PSCC and T&D combined total

** JOBS/SCSEP/GETP and Apprentice program participants are not included in the total annual budgeted FTE (Full-Time Employee) count.

** P.L. 34-32 -Temporary employee(s)

Staffing Report as of October 31, 2017 - PREPARED BY: J.Aguigui

GPA Work Session - November 21, 2017 - DIVISION REPORTS

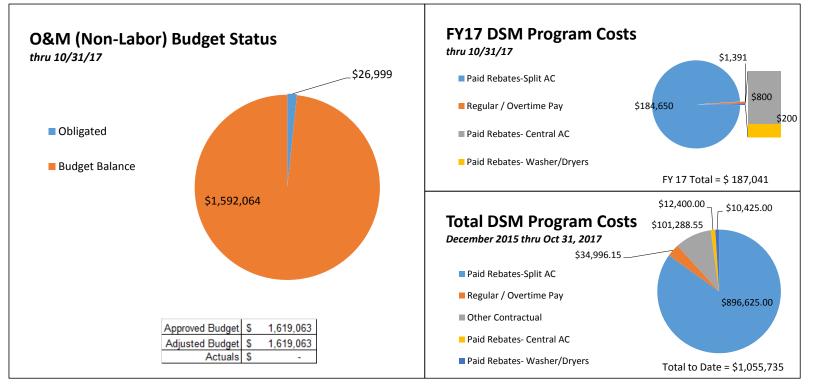
SPORD CCU Report

October 2017

SPORD FY 2018 Budget Status

SPORD O&M:





Ongoing Activities

- Contract Performance Management (IPP, PMC, Agrekko)
- Generation Fuel Supply & Fuel Farm Management
- DSM Rebate Processing
- Renewables (Wind Turbine Maint & DOAg MOA, NRG Invoicing)
- Smart Grid/Network Support
- Project Management (See September Project Activities)

October Project Activities

No.	Project Description	October Activities	Status / Est. Completion
1	Energy Storage System (Phase I)	GPA review of 90% design completed. Clearing and Grading Permit obtained. Mobilization for clearing and grading scheduled for November 2017.	May 2018
2	Renewable Energy Resource Phase II	Project is under protest. OPA meeting scheduled for Oct. 24. Continued internal discussions on System Impact Study.	(Under Protest)
3	New Power Plant Bid (EPCM)	Review of draft IPP bid documents for new power plant. Discussion on land details and RFQ process. GPA seeking PUC approval for prequalification on experience and financial capability as part of the multi-step bid.	2017 Q4 (Issue Solicitation)
4	DSM Marketing	Completed DSM Point of Sales Kits, GPA marketing signage, EV vehicle wrap (prepped for parade), various media ads, waiver form, etc.	Continuous
5	DSM Rebate Program	Processed over 820 equipment in applications for rebates totaling ~ \$185K	Continuous
6	Wireless Network Expansion (LML)	Commenced Southern Expansion in collaboration with GWA: 30% Assessment of GWA Well Locations: Completed Assessment of Existing Tropos Units: 20%	To be Updated Completed Continuous
7	Performance Metrics Automation Project	Target Completion, Phase I: Dashboard build out Started Phase II: Automating and consolidating data sources Roll-out and Change Management Initiatives commenced	Aug 2017 Sept 2017 Sept 2017
8	Electric Grid Analysis Software	Completed training for users.	Sep-17
9	Services to Develop Business Performance Indices using iDashboards	Dashboard builds 95%	Dec 2017
10	Supervisory Control and Data Acquisition (SCADA) System	Benson reviewing GPA required SCADA Systems Architecture and providing updated equipment quotes for servers and switches	Mar 2018

October Project Activities

No.	Project Description	September Activities	Status / Est. Completion
11	Mobile Workforce Management System	Rebid ongoing (announced Oct. 5).	Jan 2018 (Bid Award)
12	Consulting Services for Smart Grid Analytics Enabled Distribution System Planning, Technical, and Economic Feasibility Studies	Scheduling RFP evaluation	Sept 2017 (RFP Award)
13	TEMES Piti # 7 ECA Expiration & Transition to GPA	Coordinating tasks under AGMETS for Transition. ECA & Technical Assessment - Data Compilation in Progress - ESA Visit completed, awaiting LEIDOS report - Technical Assessment Visit completeed, awaiting LEIDOS report Assisting Generation with Transition	Deadline: 11/30/2017 Deadline: 11/30/2017 Deadline: 12/4/2017
14	MEC Piti &8 and #9 - ECA Expiration	ESA & Technical Assessment pending completion of discussions with LEIDOS/BWSC. Bid Document Preparation for New IPP Procurement. Data Compilation in Progress.	Deadline: 1/31/2018 Deadline: 12/1/2017 Deadline: 1/31/2018
15	Planning Software Upgrades & Training (Capacity Expansion/ Portfolio Optimization / Stochastics)	Training of 2 SPORD Engineers for PO use commenced 10/3/2017. Upcoming task: Configuration and management of database, training for PSCC & SPORD	Start Date: Oct 2017 Completion Date: Sept 2018
16	Generation Software (GADS open software)	Installation at Generation Division completed. Database configuration in progress. Training Scheduled for November 14-16, 2017.	Target Comp. Date: FY 2018
17	IFB for ULSD Supply for Baseloads and Peaking Units	New Bid Documents approved and being prepped for bid announcement.	Oct/Nov 2017 (Issue Solicitation)
18	Contract for Lease of Bulk ULSD Storage	Lease procurement approved. Reviewing and finalizing lease contract.	Early 2018 (Tank Available)
19	EV Infrastructure	Developing fast charge station scope for Mangilao offices.	Sept 2018

5

October Project Activities

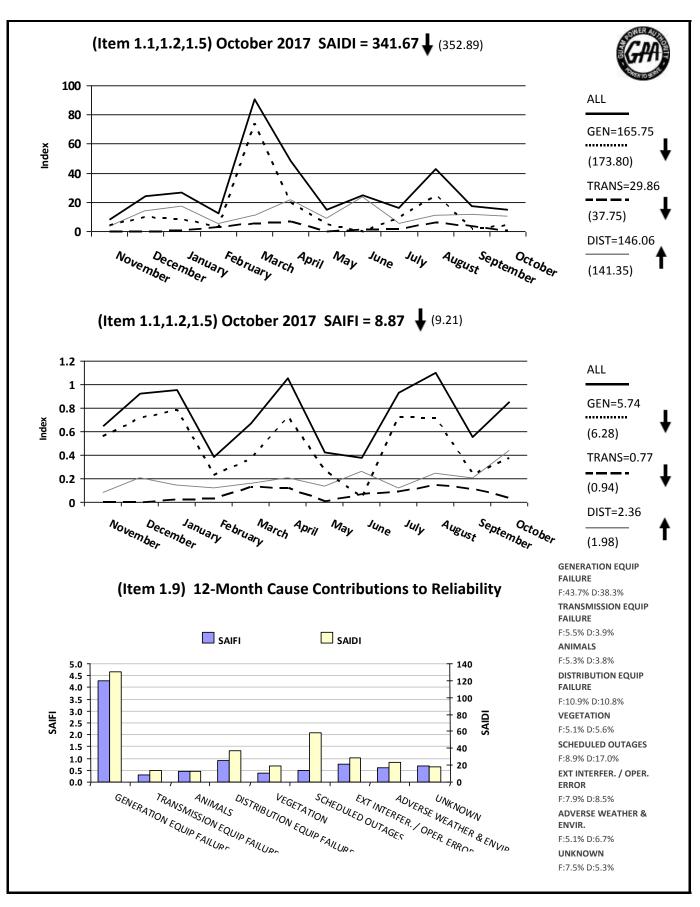
No.	Project Description	September Activities	Status / Est. Completion
20	Consulting Support new procurements for Piti / 8 9	Data compilation and bid document preparation (GPA side) in progress. Awaiting LEIDOS recommendations and draft.	Start: October 2017, Announce in Jan/Feb 2018 Completion: August 2018
21	Fuel Conversion Plan	Initial discussion commenced, detailed discussions in November after submission of Assessment Report. Data Requests being addressed.	Start: October 2017 Completion: June 2018
22	IFUEL BUIK Storage Facility Assessment		Start Date: Sept/Oct 2017 Start Date: Oct. 16, 2017
23	Design and Engineering Consulting for Remote Start of GPA Plants	SOW being discussed. Initial assessment scheduled for Nov/Dec 2017.	Start Date: Sept 2017 Completion Date: Dec 2017
24	IRenewable Energy Resource Phase III	Documents being prepped for announcement. Discussions with Navy on lease requirements.	
25	Utility Energy Services Contract (UESC)	Kicked off discussions with UOG, Guam Energy Office, Dept. of Navy, and GPA team on project development and opportunities. Discussed DSM Model House.	

Planned Procurements

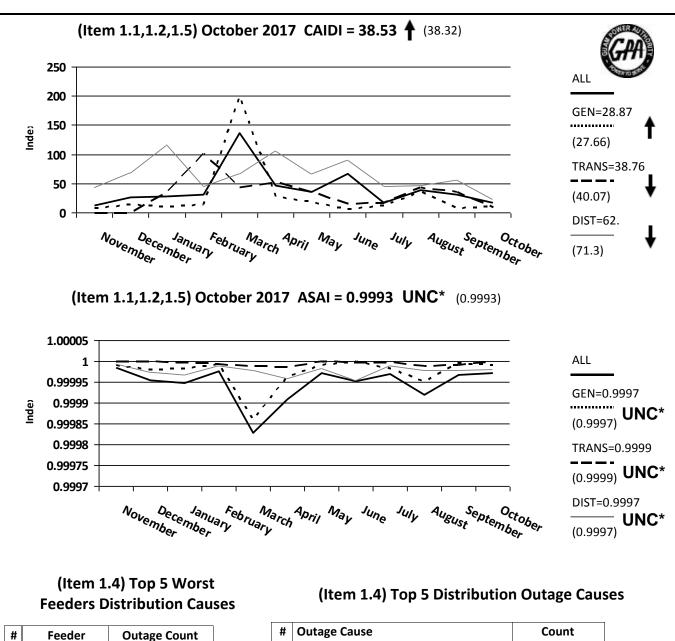
- Phase III Renewable Acquisition on Navy Leased Lands (Solar PV)
 - Documents being prepped for solicitation. (Announced 11/16/17)
- Piti #7 Additional Procurements
 - Pending Technical Assessment of plant potential procurements may include Maintenance Services Contract or a Re-capitalization Contract.
- Piti #8 and #9
 - Exploring options for re-capitalization contract after expiration of ECA in 2018. Projecting solicitation early 1st Quarter 2018.
- IPP Contracts for up to 180 MW Generation Resources
 - Documents being drafted. Projecting solicitation early 1st Quarter 2018.
- ULSD Supply & Delivery to Baseload and Peaking Units
 - Processing Documents through PMM to be re-solicited in November 2017 (Announced 11/16/17)

Planned Procurements

- Petroleum Inspection Services
 - Processing Documents through PMM to be solicited in November 2017.
- RFO Supply
 - Solicitation documents being finalized. Target solicitation in December 2017.
- Tristar Lease Agreements (Dock/Pipeline/ and Storage)
 - Documents for 4 year extension being drafted for CCU & PUC approval
- MV90 Integration and Training Services
 - Processing Documents through PMM to be solicited in December 2017
- Network Communication Substation/Plant Metering
 - Processing Documents through PMM to be solicited in December 2017
- Engineering Analysis Trainings Services
 - Processing Documents through PMM to be solicited in December 2017



As of October 31, 2017



#	Feeder	Outage Count				
1	P340	13				
2	P261	10				
3	P403	7				
4	P221	7				
5	P332	6				
(Item 1.3) Outage Count						

UFLS

275

TOTAL 506

Non-UFLS

231

#	Outage Cause	Count
1	Overhead Equipment	38
2	Vegetation	17
3	Underground Equipment	17
4	Snakes	9
5	Vehicles	7

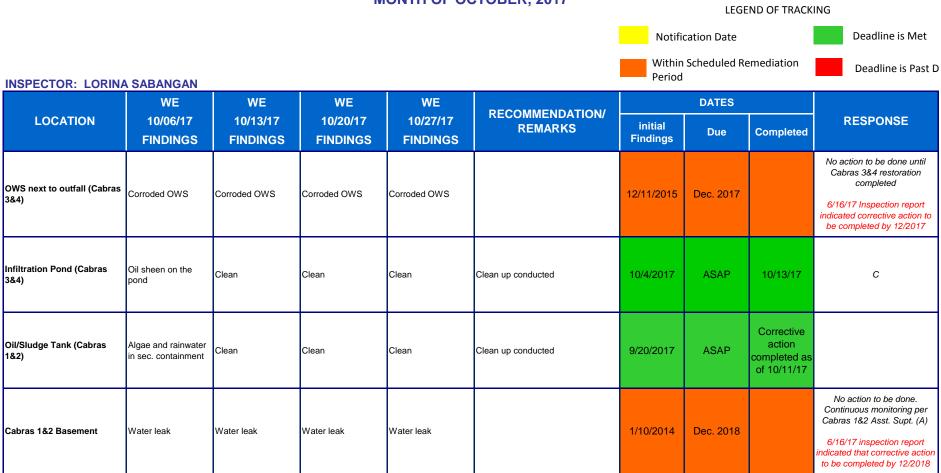
(Item 1.3) UFLS Contribution to Reliability

	SAIDI	SAIFI	CAIDI
-	155.35	5.52	28.14

UNC* = Unchanged

As of October 31, 2017

WEEKLY BMP REPORT SUMMARY CABRAS POWER PLANT MONTH OF OCTOBER, 2017

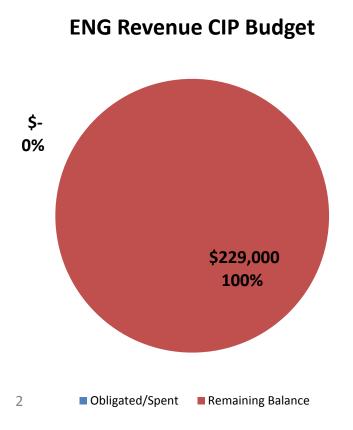


ENG Budget Execution Performance

October 31, 2017

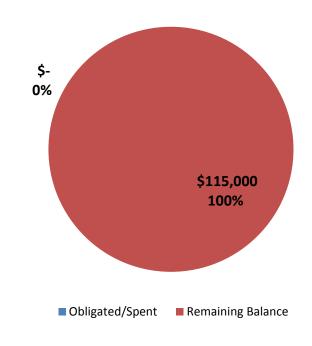
ENG Revenue CIP Budget

- Revenue Funded
- Target
 - 50% CIP Obligation by June 1, 2018
 - 100% CIP Spend by September 30, 2018



ENG O&M Contract Budget

- Revenue Funded
- Target
 - 25% CIP Obligated by April 30, 2018
 - 75% CIP Obligation by August 30, 2018
 - 100% CIP Spend by September 30, 2018



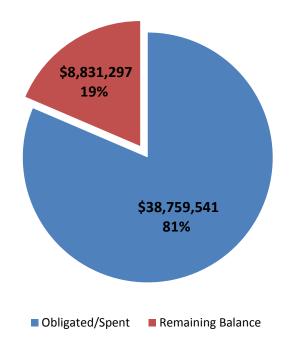
ENG O&M Contract Budget

3

ENG 2010 Bond Series CIP Budget

- Bond Funded
- Target
 - Pending

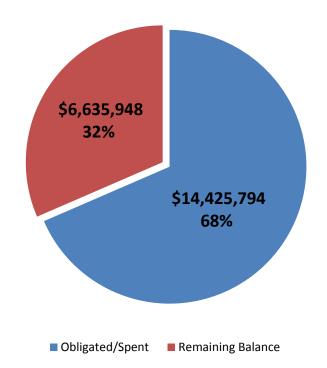
ENG 2010 Bond CIP Project Burn



ENG 2014 Bond Series CIP Budget

- Bond Funded
- Target
 - Pending

ENG 2014 Bond CIP Project Burn



GPA Work Session - November 21, 2017 - DIVISION REPORTS

Engineering Work Orders

Engineeirng Work Order Summary -September 2017					
Work Orders Received from Customer Services	107				
Work Orders Processed & Released to T&D	219				
Work Orders Processed & Released to CSR	24				
Work Orders Canceled	84				
Work Orders Pending Survey	37				
Pending Work Orders at Engineering	408				

	Engineering Large Customer and Net Metering Tracking							
Date Received	Customer Name	Work Order Number(s)	Location	KVA	Meter Qty	Status		
05/07/14	Port Authority of Guam	412337	Piti			Upgrades of existing facilities, includes line relocations and service conversions from overhead to underground 75% completed. Currently on hold pending Port Authorty direction for final removal.		
12/20/13	CoreTech International	Multiple	Dededo	250	50	Lada Estates, 450 kVA, Phase I 100% Completed 242 units energized, Phase II 300 kVA, applications received for 93 units, Phase II 100% Completed. Phase III on hold due to Labor and Permit issues.		
01/27/15	TG Engineers PC	422182-85, 90-93, 96-98	Agana Heights	100	11	11 Unit Apartment, 100 kVA, 85% Completed		
06/02/15	Docomo Pacific Inc.	Multiple	Various Locations Islandwide	50		New Comm Towers and Power Supplies, 10 sites, 9 completed		
10/20/16	Guam Waterworks	442465	Upper Tumon	300	1	GWA Compliance Laboratory, 300 kVA, 90% completed.		
05/13/15	CoreTech International Towers	426021	Tamuning	3300	104	New condominiums, 2-1500kVA and 1 300 kVA, Tower 101 100% Completed, Tower 102, 103, and 104 are 42% completed. Temporary power pending for Community Center, 100% Completed. First 52 Service Orders for Tower 101 is 100% completed.		
05/11/16	Korando Corp (DPW Bile Pigua Bridge)	437716	Merizo			Bile and Pigua Bridge Reconstruction - 65 % Completed, Route 25/26 Road Widening, currently on hold.		
12/09/16	Maeda Pacific	443952	Harmon			Route 1 and Route 3 road improvements - 50% completed, involves new underground 34.5kV and 13.8kV lines and the removal of overhead ples and lines. Pulling of wires intiated 10/9/17.		
Pending	New Nikko Expansion	Pending	Tumon	1500	1	New Nikko Expansion, pending submittal of work order application. Redesign of primary feed ongoing.		
03/10/17	Best Housing Corp Ltd	446924-30	Mangilao	60	6	New 6-Unit Townhomew, 40% completed		
03/20/17	Pangilinan, Marciano V (Doccomo)	447355	Tamuning	1000	1	Old Ben Franklin Renovation, 99% completed, Pening Archaeological work		
06/01/17	GWA Pump Stations 2 and 3	450278-9	Santa Rita	150	2	New GWA Pump Stations. 12% Completed.		
06/01/17	WM Eng Office Building	450280	Tamuning	150	1	New office building. 90% Completed.		
07/17/17	Keystone Pacific Realty Corp	451488	Hagatna	100	10	New apartment. 92% Completed. Pending additional applications.		
07/17/17	Grand Rock Corp.	451490, 1	Santa Rita	50	4	New Subdivision. 55% Completed.		
08/07/17	Matsumoto, Akiyoshi	452146-49, 51, 4, 6	Tumon	60	7	New 6 Unit Apartment with Common Meter. 5% Completed.		
08/17/17	Micronesian Community Corp.	Pending	Mangilao	130	13	New 13 unit subdivison, 5% completed		
09/11/17	Grand Harvest Inc.	453016,19,22,24-30,32,34,35,38,40	Dededo	225	17	New 17 Unit Apartment, 60 % Completed.		
10/02/17	Sumitomo Mitsui (Baza Gardens Waste water)	453369	Yona	300	1	Baza ardens Wastewater Treatment Plant Improvements, 0% Completed		
Varies	Pending Net Metering Customers	Varies	Various Locations Islandwide		17	Pending Net Metering Customers		

Total 7725 246

TALOFOFO DIESEL Inspector: Jonathan Medina	Findings	Recommendation/Remarks	Initial Findings	Due	Completed
Facility Area	Damaged window screen	Repair/replace screen	October 2017	ASAP	
TENJO DIESEL Inspector: M.C. Poliarco	Findings	Recommendation/Remarks	Initial Findings	Due	Completed

Response	
Response	

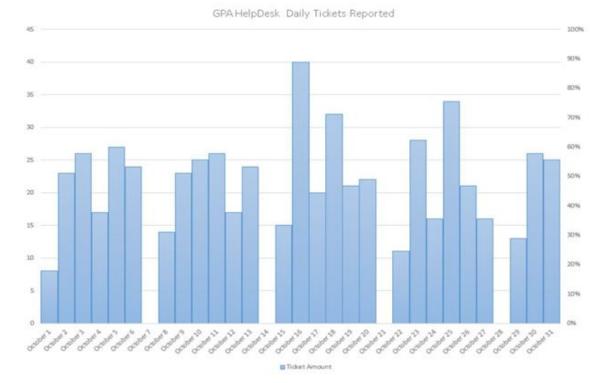
GPA INFORMATION TECHNOLOGY OCTOBER 2017

SUMMARY:

The Information Technology Department continues to improve services, monitoring processes and system infrastructure utilization as guided by Cyber-Security initiatives and regulatory compliance. We strive and continue to improve all areas. Computer Services continues to seek new technology with networking, system access and utilization. We also strive to meet target levels of uptime, to include the IBM i-Series AS400, Virtual Machine environment, (VMware V-Sphere), (Blade Servers and Disk Array Storage), and Physical Servers, (non-Virtual Machines).

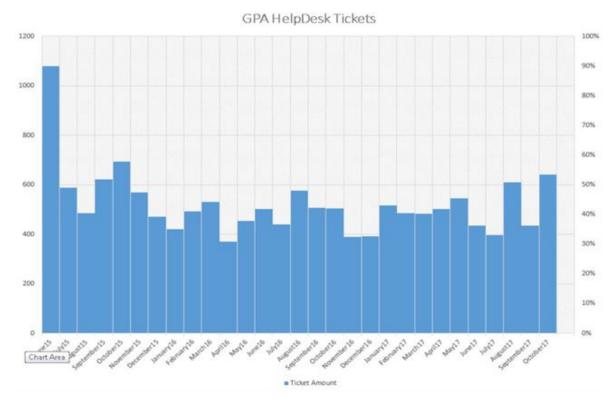
INCIDENT CALL SUMMARY:

The significance to record and utilize the Helpdesk Incident Handling Tool (ChangeGear) is to manage, track and measure workloads and assignments of customer reported IT incidents. The tracking of incidents is paramount. Measurements will be used for IT Customer Feedback survey in the future.



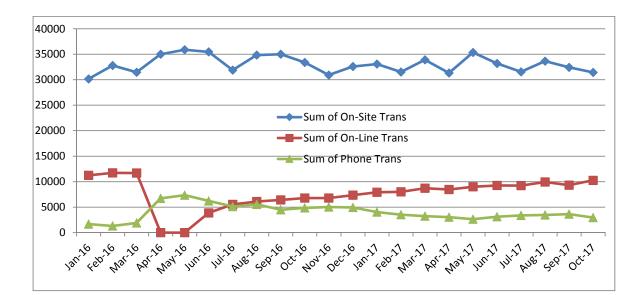
OCTOBER 2017 TICKETS





For October 2017, Computer Services responded to 641 help desk calls from GPA internal Customers. Breakdown as follows:

CLOSED TICKETS					
Low		Medium	High	Critical	
	230	166	237		8
TICKET TYPES					
End User		Hardware	Software	Network	
	523	31	64		23
OPEN TICKETS					
Low		Medium	High	Critical	
Low	9	Medium 16	High 35	Critical	1
Low TICKET TYPES	9			Critical	1
	9			Critical Network	1



CC&B PAYMENT SUMMARY TRANSACTIONS:

Row Labels	Sum of On-Site Trans	Sum of On-Line Trans	Sum of Phone Trans
Jan-16	30156	11246	1664
Feb-16	32797	11731	1318
Mar-16	31451	11696	1907
Apr-16	35008	0	6722
May-16	35892	0	7339
Jun-16	35459	3850	6223
Jul-16	31874	5540	5121
Aug-16	34820	6091	5527
Sep-16	35014	6404	4494
Oct-16	33392	6788	4854
Nov-16	30904	6777	5017
Dec-16	32601	7340	4929
Jan-17	33075	7924	4031
Feb-17	31516	8002	3513
Mar-17	33886	8722	3241
Apr-17	31315	8452	3025
May-17	35331	8999	2635
Jun-17	33180	9244	3113
Jul-17	31532	9217	3364
Aug-17	33646	9934	3451
Sep-17	32416	9302	3630
Oct-17	31435	10234	2959
Grand Total	726700	167493	88077

ESTIMATED BILLING

Category	Quantity	<i>Total Meters 53,529</i> Percentage vs Total Meters	Notes
Meters with assigned FA's	1239	2.31%	Meters with assigned Field Activity (FA) for change out as of Oct. 31, 2017 but not yet completed.
Unassigned Meters without SA	74	0.14%	Meters that have been installed but not linked to a Service Agreement (SA) in CC&B as of Oct. 31, 2017. This means the customer has a new meter but it is not reflected on their CC&B account and thus they will still see an estimated reading during their billing cycle.
Meters that are not communicating	67	0.13%	Meters that are not responding during the October billing read cycle. This could be because of communication or meter failure. Meter needs to be checked to determine cause.
TOTAL	1380	2.58%	# of meters with estimated reads for the month of October, 2017

Based on the above we have a large number of meters which are slated for change out based on the Field Activities pending which is causing the majority of the estimated reads. The remaining 67 estimated reads would need to be investigated to determine if a communication or meter failure is causing the lack of reads. As of today we have 53,529 meters deployed versus the 67 meters not communicating which amounts to only 0.13% of the total population.

MAJOR APPLICATION ISSUES FOR OCTOBER 2017

On October 24, 2017, the IT Datacenter in Fadian was shut down due to an issues with a power outage and that the primary UPS Battery Backup system was not 100% operational. Total downtime for the GPA Datacenter was 5 hrs. and 27 minutes (11:13 am to 4:40 pm). Please note the following:

- All servers, databases and application were brought down cleanly and no production data was lost.
- Critical applications were brought online by 7 pm the same day after the initial shutdown at around 11:30 am.
- There was no impact to daily billing reads and statement processing.
- Current UPS is being serviced by local vendor to for maintenance and programming.
- Engineering is working on procuring a 2nd UPS to provide redundancy to the battery backup solution.
- 1. ORACLE CUSTOMER CARE & BILLING No system issue reported.
- LANDIS & GYR AMI METERS (SMART METERS) Reported issue with Demand Reset for commercial customers. A workaround is being used to ensure that the indicator for the Demand Reset is done on a monthly basis. Working with the vendor on issue resolution. (ISSUE STILL PENDING)
- 3. ORACLE JDE No system issue reported.
- 4. METER DATA MANAGEMENT SYSTEM (MDMS) No system issue reported.
- 5. SHORETEL VOIP PHONE SYSTEM No system issue reported.
- 6. EMAIL EXCHANGE SERVER No system issue reported.
- 7. ONLINE PAYMENT SYSTEM (PAYGPA.COM) No system issue reported.

ONGOING PROJECT UPDATES:

Network Penetration Testing and Vulnerability Assessment: Project to provide network testing and vulnerability assessment to benchmark GPA and GWA's network and host systems. This will also include IT Controls Systems testing and Business Impact Analysis for GPA and GWA critical IT systems. Vendor has been selected and PO will be issued shortly.

<u>SMS Emergency Outage Notification</u>: Project to provide SMS text alerts for Emergency Outages notification for customers and emergency response agencies. Awaiting next steps from operations. In testing process at the moment with PSCC.

Pay by Phone Project: Working with vendor for Pay by Phone system to allow customers to call after hours and make automated payments to their GPA account. Expected completion by October 2017.

<u>Mobile APP Project</u>: Project to create a mobile payment APP for ANDROID and APPLE IOS smartphones. This will allow customers to review their accounts and make payments from their Smartphones. Expected completion by October 2017. Currently in testing phase.

<u>Oracle Business Intelligence (BI) Project:</u> Project to install Oracle's BI tool to allow for reporting from CC&B and JDE. Expected completion by December 2017.

Customer Care & Billing (CC&B) Upgrade: Upgrade of the current Oracle CC&B program from version 2.4 to version 2.5. The current version of CC&B 2.4 will be end of life by Sept. 30, 2017 and support thereafter will be limited. Expected completion by September 2018.

Disaster Recovery Site: Project to procure a Disaster Recovery (DR) site to provide redundancy for critical GPA applications and databases in case of disruption of the primary Fadian Data Center. Expected completion by March 2018

Submitted by:

Melvyn Kwek Chief Information Technology Officer

NET METERING October 2017

<u>Quantity</u> 1,544 19

1,563

```
Completed
Pending
Grand Total
```

Connected kVA 15,817 151 15,968

Rate Class					
Schedule	Count	Total kW			
R - Residential	1,466	13,144.85			
J - General Service Demand	30	1,523.51			
K - Small Government Demand	7	157.80			
L - Large Government	1	22.80			
P - Large Power	4	340.70			
G - General Service Non-Demand	29	548.12			
S - Small Government Non-Demand	7	78.80			
Grand Total	1,544	15,816.58			

Rate Class and Technology						
Technology	Schedule	Count	Total kW			
Solar Energy	R - Residential	1,464	13,141.25			
	J - Gen Service Dmc	30	1,523.51			
	K - Small Gov Dmd	7	157.80			
	L - Large Governme	1	22.80			
	P - Large Power	4	340.70			
	G - Gen Serv Non-D	29	548.12			
	S - Sm Gov Non-Dm	7	78.80			
Wind Turbine	Wind Turbine R - Residential 2 3.60					
Grand Total		1,544	15,816.58			

Projected FY 2018 Non-Fuel Revenue Loss						
Customer Rate Class	Renewable Energy Capacity (kW)	Annual kWh Generated (@5.092 hours/day)*	Average Non-Fuel Yield \$/kWh		imated Annual evenue Loss**	
R	13,144.85	24,374,833.3	0.09293	\$	2,265,177.63	
J	1,523.51	2,831,379.9	0.13112	\$	371,253.36	
К	157.80	293,264.7	0.13932	\$	40,858.23	
L	22.80	42,372.9	0.13525	\$	5,730.84	
P	340.70	633,176.8	0.11539	\$	73,061.63	
G	548.12	1,018,658.2	0.15084	\$	153,650.33	
S	78.80	146,446.5	0.15334	\$	22,456.26	
Grand Total	15,816.58	29,340,132.2		\$	2,932,188.27	

**Source: FY 2014 Annual Non Fuel Revenues, The Self Insurance surcharge was deactivated effective 8/1/2015 The Working Capital Fund Surcharge was deactivated effective 10/1/2015.

Estimated Annual Revenue Loss							
Description	Estimated kWh	*Total Estimated Cost					
FY17	28,242,917	\$ 2,828,834.71					
FY16	21,867,383	\$ 2,200,794.56					
FY15	7,383,621	\$ 856,921.27					
FY14	3,137,212	\$ 410,558.94					
FY13	1,556,949	\$ 178,996.00					
FY12	494,672	\$ 58,545.89					
FY11	170,070	\$ 18,177.13					
FY10	98,830	\$ 8,483.27					
EX00	23 912	\$ 1,656,87					

 FY09
 23,912
 \$
 1,656.87

 *Source for effective yield rate from the Year End Revenue Reports (12 month Average Yield)

I

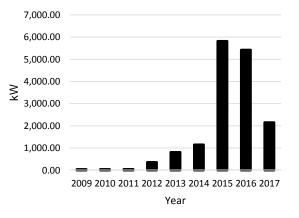
NET METERING October 2017

	_		and Connected		
	Feeder		Customer Count		% of Feeder Minimum Daytime k
	P-005	297.57	22	17.3%	34.6%
	P-046	193.57	24	4.6%	7.0%
	P-088	603.78	67	10.0%	15.9%
	P-089	423.35	53	9.5%	22.8%
	P-111	60.00	1	1.1%	2.0%
	P-203	401.36	31	5.4%	15.2%
	P-204	109.48	14	2.4%	4.8%
	P-205	36.40	4	0.8%	1.3%
	P-210	435.96	45	8.5%	11.6%
	P-212	794.07	75	19.2%	49.7%
en e	P-213 P-220	195.33 133.89	10 14	7.5%	10.0%
	P-220	437.52	45	10.0%	19.8%
	P-223	487.96	53	20.5%	29.3%
	P-240	58.55	2	0.9%	7.9%
	P-245	25.00	1	0.5%	1.1%
	P-250	863.32	89	13.0%	22.9%
	P-251	145.50	7	5.9%	9.0%
	P-253	453.71	49	10.1%	15.9%
	P-262	917.25	95	24.1%	57.8%
	P-270	291.42	24	5.7%	11.5%
	P-271	80.28	11	1.4%	2.9%
	P-272	221.03	16	8.6%	19.6%
	P-280	311.59	25	17.3%	32.2%
	P-281	129.70	3	4.6%	12.9%
	P-282	21.00	2	0.6%	1.7%
	P-283	472.55	45	13.1%	22.4%
	P-294	915.02	89	21.1%	41.9%
en e	P-301	196.79	22	13.9%	24.8%
	P-311	508.11	45	12.7%	21.8%
	P-322	785.44	83	10.4%	20.6%
	P-323	274.41	17	5.8%	18.0%
	P-330	513.25	64	9.4%	19.0%
	P-331	694.84	80	10.8%	17.4%
	P-332	369.46	45	6.5%	9.6%
	P-340	497.37	43	27.4%	60.4%
	P-087	973.80	107	24.8%	38.8%
	P-252	407.01	23	9.7%	19.7%
	P-321	246.63	24	4.4%	4.9%
	P-260	45.99	5	6.7%	23.0%
	P-067	68.25	10	0.8%	1.0%
	P-312	68.90	4	4.1%	4.8%
	P-206	18.33	2	1.9%	3.4%
	P-242	23.75	2	0.4%	1.1%
	P-310	181.57	8	6.6%	12.1%
	P-261	299.92	32	10.8%	18.6%
	P-201	40.00	5	1.1%	2.0%
	P-007	42.33	4	5.8%	12.5%
	P-244	18.00	1	1.0%	1.0%
	P-202	22.00	1	0.7%	1.6%
	P-341	4.30	1	0.4%	1.6%
Completed Total		15,816.58	1,544	0.770	1.070
	P-221	7.00	1	0.2%	0.3%
	P-332	15.00	1	0.3%	0.4%
	Pending	129.41	17	0.0%	0.0%
Pending Total	Juliang	151.41	19	0.4%	0.7%
		15,967.99	1,563	0.470	0.170

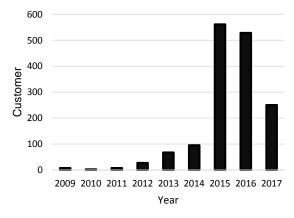
NET METERING OCTOBER 2017

Installed kW by Year					
Year	Total	Cumulative			
2009	39.46	39.46			
2010	39.20	78.66			
2011	43.61	122.27			
2012	354.61	476.88			
2013	808.45	1,285.33			
2014	1,146.54	2,431.87			
2015	5,815.59	8,247.46			
2016	5,420.96	13,668.41			
2017	2,148.17	15,816.58			
Grand Total	15,816.58				

Annual Installed kW

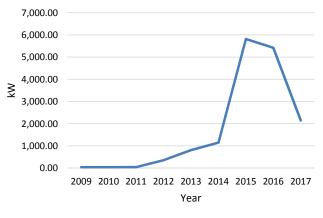


Annual Connected Customer Count



Customer Count by Year					
Year	Total	Cumulative			
2009	7	7			
2010	2	9			
2011	7	16			
2012	27	43			
2013	67	110			
2014	95	205			
2015	561	766			
2016	528	1,294			
2017	250	1,544			
Grand Total	1,544				

Cumulative Installed kW



600 500 400 300 200 100 0 2009 2010 2011 2012 2013 2014 2015 2016 2017 Year

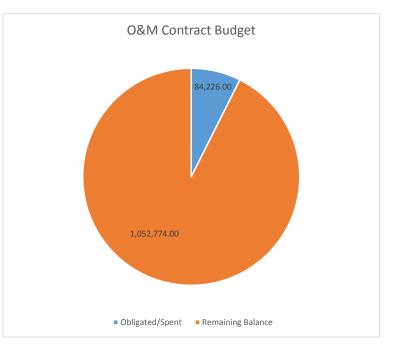
Cumulative Connected Customer Count

Planning & Regulatory CCU Report

November 16, 2018

Planning & Regulatory O&M Contract Budget

- Revenue Funded
- Target
 - 7.41% O&M Obligated by November 16, 2017
 - 30.09% O&M Obligation by December 31, 2017



P&R Weekly & Monthly Inspection Reports

- Best Management Practices (BMP) Report Summary [Weekly]
- Generation Spill Prevention, Control, and Countermeasures (SPCC) Report Summary [Monthly]
- T&D Spill Prevention, Control, and Countermeasures (SPCC) Report Summary [Monthly]
- GPA is responsible to employees, the island environment, and the community to take all reasonable steps necessary to prevent spills from its facilities in order to protect human health and the environment

P&R Inspection Report Purpose

- The purpose of these inspections is to catch discrepancies and violations internally and correct them before inspections by Guam EPA and US EPA
- Regulatory Agencies can conduct scheduled or un-scheduled (surprise) inspections any time
- Any major discrepancies or violations cited can lead to issuance of a Notice of Violation (NOV), possible fines, and/or other enforcement action
- P&R conducts routine SPCC inspections in compliance with the requirements of 40CFR 112.7(a)(3)(ii), Discharge Prevention Measures



Production Data

31-Oct-17

	SYSTEM											
YEAR	YEAR MONTH	MONTH # of DAYS GROSS GENERATION		FUEL CONS	FUEL CONSUMPTION		15.99	Y COST per RATE (Baseload			Ave. MW	Peak MW
				(gal)	(bbl)	kWh/gal)						
	Oct	31	142,387,859	10,285,716	244,898	13.84	\$ 0.1076	9,797.11	12,360.42	191	258	
2015	Nov	30	140,522,664	9,871,651	235,039	14.23	\$ 0.1185	9,731.04	12,945.82	195	248	
	Dec	31	142,668,711	9,711,263	231,221	14.69	\$ 0.0951	9,538.53	12,579.77	192	239	
	Jan	31	138,191,484	9,446,289	224,912	14.63	\$ 0.0676	9,662.86	13,413.90	186	233	
	Feb	29	128,816,826	8,860,399	210,962	14.54	\$ 0.0706	9,692.42	12,038.19	185	232	
	Mar	31	139,991,832	9,522,573	226,728	14.70	\$ 0.0732	9,172.99	11,597.00	188	239	
	Apr	30	140,706,546	9,301,856	221,473	15.13	\$ 0.0734	9,368.24	11,041.70	195	245	
	May	31	152,815,417	9,751,521	232,179	15.67	\$ 0.0681	9,459.10	11,388.57	205	254	
2016	June	30	149,191,844	9,851,575	234,561	15.14	\$ 0.0805	9,666.70	11,074.48	207	253	
2010	July	31	151,248,202	10,443,028	248,644	14.48	\$ 0.0920	9,477.71	12,208.87	203	258	
	Aug	31	149,051,031	10,210,429	243,105	14.60	\$ 0.0935	9,431.70	11,155.10	200	252	
	Sept	30	142,069,206	9,829,773	234,042	14.45	\$ 0.0956	9,509.75	11,393.73	197	256	
	Oct	31	148,824,965	9,660,319	230,008	15.41	\$ 0.0729	9,749.38	10,738.69	200	252	
	Nov	30	145,293,562	9,427,636	224,468	15.41	\$ 0.0901	9,714.47	10,786.30	202	252	
	Dec	31	147,753,552	9,725,521	231,560	15.19	\$ 0.0934	9,661.13	10,645.44	199	248	
	Jan	31	142,960,618	9,226,278	219,673	15.49	\$ 0.0913	9,620.29	10,965.71	192	234	
	Feb	28	113,499,400	7,270,830	173,115	15.61	\$ 0.0900	9,609.08	11,503.12	195	246	
	Mar	31	149,402,182	9,664,440	230,106	15.46	\$ 0.1014	9,719.35	11,440.45	201	246	
	Apr	30	145,351,026	9,913,757	236,042	14.66	\$ 0.1101	9,750.73	11,392.12	202	250	
2017	May	31	157,573,506	11,065,930	263,475	14.24	\$ 0.1170	10,067.14	11,323.20	212	256	
2017	June	30	150,240,751	10,654,196	253,671	14.10	\$ 0.1101	10,209.74	11,248.62	209	257	
	July	31	150,580,050	10,622,458	252,916	14.18	\$ 0.1169	9,544.54	11,837.62	202	252	
	Aug	31	150,084,827	10,642,044	253,382	14.10	\$ 0.1177	9,206.15	11,917.58	202	261	
	Sept	30	143,990,208	10,309,304	245,460	13.97	\$ 0.1152	9,541.20	13,107.05	200	254	
	Oct	31	147,122,071	9,774,857	232,735	15.05	\$ 0.1079	9,590.71	11,375.81	198	254	

Annual Financial Review

Consolidated Commission on Utilities November 21, 2017





Performance Summary

(in '000)	Unaudited 2017	Budget 2017	Variance to Budget	Audited 2016	Variance to PY
Sales of Electricity					
Base Rate	\$ 164,649	\$ 157,7	20 \$ 6,929	\$ 159,567	\$ 5,082
LEAC	166,425	200,0	15 (33,590)	146,340	20,085
Working Capital	-		-	-	-
Others	2,245	2,6	00 (355)	2,294	(49)
Total operating revenues	333,319	360,3	35 (27,016)	308,201	25,118
Cost of electricity	166,425	200,0	15 33,590	146,340	(20,085)
Operating and maintenance	80,981	93,2	29 12,248	77,012	(3,969)
Depreciation	47,607	41,8	04 (5,803)	44,240	(3,367)
Total operating expenses	295,013	335,0	48 40,035	267,592	(27,421)
Operating Income	38,306	25,2	87 13,019	40,609	(2,303)
Interest income	1,722	1,3	84 338	1,101	621
Interest expense	(33,750)	(32,8	21) (929)	(33,989)	239
Allowance for funds used during construction	3,676	1,4	20 2,256	4,137	(461)
Other expense, net	(76)	1,5	22 (1,598)	(451)	375
Extraordinary item	-		-	(19,806)	19,806
Income	\$ 9,878	\$ (3,2	08) \$ 13,086	\$ (8,399)	\$ 18,277





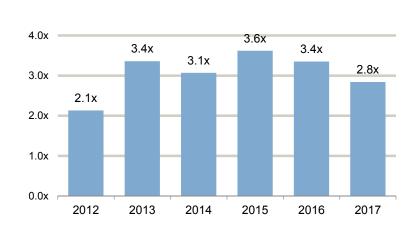
Electric Sales Information

	2012	2013	2014	2015	2016	2017
Peak Demand (MW)	263	257	249	255	258	261
Total Electric Sales (GWh)	1,563	1,566	1,533	1,540	1,574	1,610
Sales Growth (%)	-3.4	0.2	-0.2	0.4	2.2	2.3
Total Customers	48,512	48,598	48,918	49,530	50,207	51,114



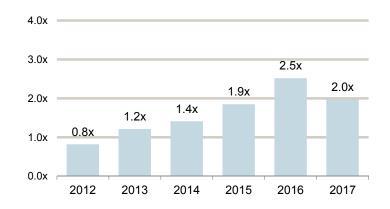


Historical Debt Service Coverage



Senior DSC - Indenture

Aggregate DSC – Capital Lease Payments as O&M Expense







Investment Grade Credit

Credit Summary						
Long-Term Senior Debt	Rating	Long-Term Outlook				
Standard & Poor's	BBB	Stable				
Moody's Rating	Baa2	Stable				
Fitch Rating	BBB-	Stable				







GUAM POWER AUTHORITY ATURIDÅT ILEKTRESEDÅT GUAHAN P.O.BOX 2977 • AGANA, GUAM U.S.A. 96932-2977

GUAM POWER AUTHORITY FINANCIAL STATEMENT OVERVIEW

September 2017

Attached are the financial statements and supporting schedules for the month and fiscal year ended September 30, 2017.

Summary

The increase in net assets for the year ended was \$10.0 million as compared to the anticipated net decrease of \$4.2 million at the beginning of the year. This was primarily due to the underexpenditure of O&M expenses. The total kWh sales for the year were 4.49% more than projected and non-fuel revenues were \$6.9M more than the estimated amounts. O & M expenses for the year were \$60.6 million which was \$14.8 million less than our projections for this year. Other expenses for the year such as interest expense, IPP costs, (net of interest income and other income) totaled to \$47.0 million which was about \$0.3 million more than the projected amount. There were no other significant departures from the budget during the period.

Analysis

Description	Previous	Current	Target
	Month	Month	
Quick Ratio	2.02	1.55	2
Days in Receivables	41	41	52
Days in Payables	29	48	30
LEAC (Over)/Under	\$15,640,990	\$16,751,048	\$11,277,708
Recovery Balance - YTD			
T&D Losses	4.96%	4.95%	7.00%
Debt Service Coverage	2.05	1.95	1.75
Long-term equity ratio	13%	13%	30-40%
Days in Cash	183	196	60

The Quick Ratio reflects the basic challenge facing GPA. However, this fiscal year has shown improvement over the previous fiscal year. This is due to the receipt of \$84M in cash advances of insurance proceeds. GPA has current obligations of approximately \$108.3 million and approximately \$168.1 million in cash and current receivables. The LEAC under recovery for the month is \$1.1 million. The Debt Service Coverage ratio is calculated using the methodology in use before the Fiscal Year 2002 change in accounting practice.

Financial Statement September 2017 Significant Assumptions

The significant assumptions in the financial statements are as follows:

- > Accrual cutoff procedures were performed at month end
- > An inventory valuation is performed at year-end only
- > Accounts Receivable includes accruals based on prior months' usage.

Prepared by:

Reviewed by:

Approved by:

Lenora M. Sanz Controller

Amon M.Sm

John J Kim Chief Financial Officer

John M. Benavente, P.E. General Manager

	GUAM POWER AUTHORITY		
	(A COMPONENT UNIT OF THE GOVERNMEN	T OF GUAM)	
	Statements of Net Position	a 2017	
	September 30, 2017 and September 3	0, 2016	
	Unaudited	Unaudited	Change from
	September	September	Sept 30
	2017	2016	2016
ASSETS AND DEFERRED OUTFLOWS OF RESOURCES			
Current assets:			
Cash and cash equivalents:			
Held by trustee for restricted purposes:			
Interest and principal funds	\$ 18,061,879	\$ 16,005,063	\$ 2,056,81
Bond indenture funds	56,907,535	69,821,815	(12,914,280
Held by Guam Power Authority:			
Bond indenture funds	132,579,889	126,992,587	5,587,302
Self insurance fund-restricted	19,251,372	19,506,796	(255,424
Energy sense fund	1,074,491	1,646,041	(571,550
Total cash and cash equivalents	227,875,166	233,972,302	(6,097,136
Accounts receivable, net	35,603,289	62,635,764	(27,032,475
Total current receivables	35,603,289	62,635,764	(27,032,475
Materials and supplies inventory	11,989,745	13,555,719	(1,565,974
Fuel inventory	52,387,369	31,326,367	21,061,002
Prepaid expenses	682,814	754,024	(71,210
Total current assets	328,538,383	342,244,176	(13,705,793
Jtility plant, at cost:			
Electric plant in service	1,037,419,517	990,594,593	46,824,924
Construction work in progress	18,382,414	17,206,429	1,175,985
Total	1,055,801,931	1,007,801,022	48,000,909
Less: Accumulated depreciation	(565,144,900)	(540,262,575)	(24,882,325
Total utility plant	490,657,031	467,538,447	23,118,584
Other non-current assets:			
Investment - bond reserve funds held by trustee	48,576,863	48,550,887	25,976
Unamortized debt issuance costs	4,267,305	4,646,601	(379,296
Total other non-current assets	52,844,168	53,197,488	(353,320
Total assets	872,039,582	862,980,111	9,059,47
eferred outflow of resources:			
Deferred fuel revenue	16,751,048	1,492,325	15,258,72
Unamortized loss on debt refunding	11,076,064	12,324,400	(1,248,33)
Pension	8,168,718	8,168,718	(
Unamortized forward delivery contract costs	637,358	796,718	(159,36
Total deferred outflows of resources	36,633,188	22,782,161	13,851,02
	\$ 908,672,770	\$ 885,762,272	\$ 22,910,498

	GUAM POWER AUTHORITY (A COMPONENT UNIT OF THE GOVERNME Statement of Net Position, Contir September 30, 2017 and September	nued	
	Unaudited September 2017	Unaudited September 2016	<u>Change from</u> <u>Sept 30</u> 2016
LIABILITIES, DEFERRED INFLOWS OF RESOURCES AND NET POSITION			
Current liabilities:			
Current maturities of long-term debt Current obligations under capital leases Accounts payable	\$ 1,780,000 16,949,416	\$ 115,000 16,737,242	\$ 1,665,000 212,17
Operations Others	56,671,898 5,425,336	24,622,615 23,012,732	32,049,283 (17,587,396
Accrued payroll and employees' benefits Current portion of employees' annual leave Interest payable	1,546,860 2,324,895 15,065,830	1,533,906 2,405,799 15,146,696	12,954 (80,904 (80,866
Customer deposits	8,503,783	8,381,571	122,212
Total current liabilities	108,268,018	91,955,561	16,312,457
Regulatory liabilities: Provision for self insurance	19,550,977	19,550,977	0
Total regulatory liabilities	19,550,977	19,550,977	0
Long term debt, net of current maturities Obligations under capital leases, net of current portion	590,568,862 30,343,708	595,057,769 22,872,720	<mark>(4,488,907</mark> 7,470,988
Net Pension liability	64,596,253	71,049,220	(6,452,967
DCRS sick leave liability Employees' annual leave net of current portion	4,008,397 806,762	3,436,738 806,762	571,659 0
Customer advances for construction	369,180	319,321	49,859
Total liabilities	818,512,157	805,049,068	13,463,089
Deferred inflows of resources:			
Unearned forward delivery contract revenue Pension	2,336,071 732,788	2,920,088 732,788	(584,017)
Total deferred inflows of resources	3,068,859	3,652,876	(584,017
Commitments and contigencies			
Net Position:			
Net investment in capital assets Restricted	(43,869,737) 15,232,832	<mark>(49,190,903)</mark> 4,645,344	5,321,166 10,587,488
Unrestricted	15,232,832	4,645,344 121,605,887	(5,877,229
Total net position	87,091,753	77,060,328	10,031,425
	<u>\$ 908,672,770</u>	<u>\$ 885,762,272</u>	<u>\$ 22,910,498</u>

		GUAM POWER AUTHO IPONENT UNIT OF THE GOVER t of Revenues, Expenses and C	NMENT OF GUAM			
	6	at 1. 22	N - f		ling	
	Septer Unaudited 2017	nber 30 Unaudited 2016	% of change Inc (dec)	Septem Unaudited 2017	Unaudited 2016	% of change Inc (dec)
Revenues Sales of electricity	\$ 29,769,728	\$ 24,899,890	20	\$ 331,074,055	\$ 306,896,751	8
Miscellaneous	103,178	72,856	42	2,244,718	2,293,862	(<u>2</u>)
Total	29,872,906	24,972,746	20	333,318,773	309,190,613	8
	,,			,,		-
Bad debt expense	514,895	324,776	<u>59</u>	(472,466)	(989,762)	(52)
Total revenues	30,387,801	25,297,522	20	332,846,307	308,200,851	8
Operating and maintenance expenses						
Production fuel	15,895,300	11,374,557	40	166,424,781	146,339,925	14
Other production	3,229,759	1,710,869	<u>89</u>	17,783,902	15,834,797	<u>12</u>
	19,125,059	13,085,426	46	184,208,683	162,174,722	<u>14</u>
Depreciation	4,146,953	5,996,850	(31)	47,607,153	44,240,396	8
Energy conversion cost	1,769,267	1,440,066	23	19,935,334	16,800,170	19
Transmission & distribution	940,814	592,494	59	11,703,969	10,816,589	8
Customer accounting	455,568	(215,792)	(311)	4,283,747	4,501,922	(5)
Administrative & general	3,026,543	3,091,975	(311)	26,801,217	29,057,726	(8)
Administrative & general	3,020,343	3,031,375	<u>(2)</u>	20,001,217	23,037,720	(0)
Total operating and maintenance expenses	29,464,204	23,991,019	<u>23</u>	294,540,103	267,591,525	<u>10</u>
Operating income	923,597	1,306,503	<u>(29)</u>	38,306,204	40,609,326	<u>(6)</u>
Other income (expenses)						
Interest income	346,969	258,874	34	1,722,482	1,100,891	56
Interest expense and amortization	(2,666,837)	(2,903,243)	(8)	(33,749,477)	(34,812,432)	(3)
Bond issuance costs	76,827	68,617	12	921,924	823,404	12
Assets written off	0	0		0	0	
Allowance for funds used during construction	272,277	323,642	(16)	3,675,581	4,137,428	(11)
Other expense	(229,740)	(19,809,899)	(99)	(998,654)	(21,502,593)	<u>(95)</u>
Total other income (expenses)	(2,200,504)	(22,062,009)	<u>(90)</u>	(28,428,144)	(50,253,302)	<u>(43)</u>
Income (loss) before capital contributions	(1,276,907)	(20,755,506)	(94)	9,878,060	(9,643,976)	(202)
Capital contributions	8,654	650,256	0	153,365	2,385,071	(94)
Increase (decrease) in net assets	(1,268,253)	(20,105,250)	(94)	10,031,425	(7,258,905)	<u>(238)</u>
Total net assets at beginning of period (restated)	88,360,007	94,474,120	<u>(6)</u>	77,060,329	81,627,775	<u>(6)</u>
Total net assets at end of period	\$ 87,091,754	\$ 74,368,870	17	\$ 87,091,754	\$ 74,368,870	17

GUAM POWER AUTHORITY (A COMPONENT UNIT OF THE GOVERNMENT OF GUAM) Statements of Cash Flows Period Ended September 30, 2017

	Month Ended 9/30/2017	YTD Ended 9/30/2017
Increase(decrease) in cash and cash equivalents		
Cash flows from operating activities:		
Cash received from customers	\$30,258,059 \$	359,968,418
Cash payments to suppliers and employees		
for goods and services	7,288,185	271,322,632
Net cash provided by operating activities	\$22,969,875	88,645,786
Cash flows from investing activities:		
Interest and dividends on investments and		
bank accounts	346,969	1,722,482
Net cash provided by investing activities	346,969	1,722,482
Cash flows from non-capital financing activities		
Interest paid on short term debt	(8,020)	(79,141)
Provision for self insurance funds	(1,802)	255,424
Net cash provided by noncapital financing activities	(9,822)	176,283
Cash flows from capital and related financing activities		
Acquisition of utility plant	(9,937,101)	(70,725,727)
Principal paid on bonds and other long-term debt	-	(115,000)
Interest paid on bonds(net of capitalized interest)	272,273	(25,078,544)
Interest paid on capital lease obligations	(270,804)	(4,997,077)
Interest & principal funds held by trustee	(2,744,752)	(2,056,816)
Reserve funds held by trustee	(5,916)	(25,976)
Bond funds held by trustee	2,994,928	12,914,280
Principal payment on capital lease obligations	(1,976,645)	7,683,162
Grant from DOI/FEMA	8,653	153,365
Debt issuance costs/loss on defeasance	(225,743)	(2,708,916)
Net cash provided by (used in) capital and related		
financing activities	(11,885,107)	(84,957,249)
Net (decrease) increase in cash and cash equivalents	11,421,914.49	5,587,301
Cash and cash equivalents, beginning	121,157,974	126,992,587
Cash and cash equivalents-Funds held by GPA, September 30, 2017	<u>\$ </u>	132,579,888

GUAM POWER AU (A COMPONENT UNIT OF THE GO Statements of Cash Flow Period Ended Septem	VERNMENT OF GUAM) ws, continued	
	Month Ended 9/30/2017	YTD Ended 9/30/2017
Reconciliation of operating earnings to net cash provided		
by operating activities:		
Operating earnings net of depreciation expense		
and excluding interest income	\$940,679	\$38,306,204
Adjustments to reconcile operating earnings to net cash		
provided by operating activities:		
Depreciation and amortization	4,146,953	47,607,153
Other expense	(152,900)	(76,730)
(Increase) decrease in assets:		
Accounts receivable	(172,223)	27,032,475
Materials and inventory	170,874	1,565,974
Fuel inventory	(9,658,943)	(21,061,002)
Prepaid expenses	942,112	71,210
Unamortized debt issuance cost	31,608	379,296
Deferred fuel revenue	(1,110,058)	(15,258,723)
Unamortized loss on debt refunding	104,028	1,248,336
Unamortized forward delivery contract costs	13,280	159,360
Increase (decrease) in liabilities:		
Accounts payable-operations	27,662,542	32,049,283
Accounts payable-others	(4,448)	(17,015,846)
Accrued payroll and employees' benefits	147,025	12,954
Net pension liability	(728,717)	(6,452,967)
DCRS Sick leave liability	571,659	571,659
Employees' annual leave	(92,358)	(80,904)
Customers deposits	188,200	122,212
Customer advances for construction	19,230	49,859
Unearned forward delivery contract revenue	(48,668)	(584,017)
Net cash provided by operating activities	\$22,969,875	\$88,645,786

		Guam Power Authority Financial Analysis September 30, 2017	
	Quick Ratio		
А	Reserve Funds Held by GPA	132,579,889	Quick ratio
В	Current Accounts Receivable	35,473,016	
С	Total Cash and A/R (A+B)	168,052,905	2.23 2.26 2.19 2.03 2.06 2.29 2.17 2.02
D	Total Current Liabilities	108,268,018	.70 1.77 1.55
Е	Quick Ratio (F/G)	1.55	
	Days in Receivables		OCT-16 NOV-16 DEC-16 JAN-17 FEB-17 MAR-17 APR-17 MAY-17 JUN-17 JUL-17 AUG-17 SEP-17
А	FY 16 Moving 12 MosActual	317,390,300	
В	No. of Days	365	
С	Average Revenues per day (A/B)	869,562	Days in receivables
D	Current Accounts Receivable	35,473,016	
E	Days in Receivables (D/C)	41	39 36 57 33 35 39 31 40 41 41 41
	Days in Payables		
Α	FY 16 Moving 12 Months-Actual	468,278,485	OCT-16 NOV-16 DEC-16 JAN-17 FEB-17 MAR-17 APR-17 MAY-17 JUN-17 JUL-17 AUG-17 SEP-17
В	No. of Days	365	
С	Average Payables per day (A/B)	1,282,955	
D	Current Accounts Payables	62,097,234	Days in payables
E	Days in Payables (D/C)	48	
A B C D	Long term equity ratio Equity Total Long term Liability Total Equity and liability Long term equity ratio (A/C)	\$ 87,091,753.00 \$ 588,069,074.00 \$ 675,160,827.00 13%	4 5 4 4 2 2 5 2 0 2 2 5 2 2 0 2 2 5 2 2 2 0 2 2 5 2 2 2 2 0 2 1
	Days cash on hand		
Α	Unresctricted cash & cash equivalents	132,580	Long term Equity ratio
В	No. of Days -YTD	365	
С	AxB	48,391,659	
D	Total Operating expenses excluding depreciation	246,930	194
E	Days cash on hand	196	15% 15% 15% 15% 12% 12% 13% 13% 13% 13% 13%
	Days' Liquidity		
А	Unresctricted cash , cash equivalents & revolving Credit	167,580	OCT-16 NOV-16 DEC-16 JAN-17 FEB-17 MAR-17 APR-17 MAY-17 JUN-17 JUL-17 AUG-17 SEP-17
В	No. of Days -YTD	365	
С	A x B	61,166,659	
D	Total Operating expenses excluding depreciation	246,930	Days' Cash & Day's Liquidity
Е	Days liquidity	248	400
			350 288 266 250 251 226 251 232 214 220 200 183 200 183 200 183 200 183 200 183 200 183 196 0 0 0 0 0 0 0 0 0 0 0 0 0

GUAM POWER AUTHORITY ACCRUED REVENUE SEPTEMBER 2017

		FOR THE N SEPTI		TWELVE MC SEPTI	
		2017	2016	2017	2016
KWH SALES:					
Residential		41,491,015	41,186,530	506,335,602	487,022,560
Small Gen. Non Demand		7,022,092	6,885,525	83,899,700	80,284,067
Small Gen. Demand		15,509,408	14,741,107	190,050,925	190,587,125
Large General Independent Power Producer		25,432,034	25,176,509	314,573,231	308,834,877
Private St. Lights		76,532 34,586	62,052 56,235	1,003,769 450,462	767,880 629,744
Flivate St. Lights	Sub-total	89,565,666	88,107,957	1,096,313,688	1,068,126,254
Government Service:	oub-total	00,000,000	00,107,007	1,000,010,000	1,000,120,204
Small Non Demand		1,246,106	1,164,666	13,902,246	13,428,264
Small Demand		8,084,368	7,858,530	96,878,602	93,302,996
Large		6,493,449	5.804.148	74,897,969	70,055,104
Street Lighting		697,002	995,613	9,514,606	11,344,681
Sub-total		16,520,925	15,822,957	195,193,422	188,131,044
Total		106,086,591	103,930,914	1,291,507,110	1,256,257,298
U. S. Navy		26,906,320	26,000,826	318,585,901	318,082,773
GRAND TOTAL		422 002 044	420 024 744	4 640 002 044	4 574 340 074
GRAND TOTAL		132,992,911	129,931,741	1,610,093,011	1,574,340,071
REVENUE:					
Residential		\$ 8,887,320	\$ 7,492,970	\$ 100,601,977	\$ 92,057,360
Small Gen. Non Demand		\$ 1,783,997	\$ 1,523,079	\$ 20,040,732	\$ 18,390,954
Small Gen. Demand		\$ 3,692,273	\$ 3,075,598	\$ 42,069,517	\$ 40,501,958
Large General		\$ 5,643,059	\$ 4,802,289	\$ 64,178,060	\$ 60,787,284
Independent Power Producer		\$ 17,076	\$ 13,572	\$ 211,031	\$ 160,467
Private St. Lights		\$ 25,361	\$ 28,980	\$ 306,957	\$ 345,133
	Sub-total	\$ 20,049,087	\$ 16,936,487	\$ 227,408,274	\$ 212,243,155
Government Service:					
Small Non Demand		\$ 333,079	\$ 277,519	\$ 3,513,008	\$ 3,299,460
Small Demand		\$ 2,050,292	\$ 1,746,819	\$ 22,830,078	\$ 21,324,151
Large		\$ 1,575,080	1,250,824	\$ 16,979,365	\$ 15,453,317
Street Lighting		\$ 436,808	\$ 431,835	\$ 5,438,696	\$ 5,383,255
	Sub-total	\$ 4,395,259	\$ 3,706,997	\$ 48,761,148	\$ 45,460,182
	Total	\$ 24,444,346	\$ 20,643,484	\$ 276,169,422	257,703,338
U. S. Navy		\$ 5,325,383	\$ 4,256,406	\$ 54,904,634	\$ 49,193,414
GRAND TOTAL		\$ 29,769,728	\$ 24,899,890	\$ 331,074,056	\$ 306,896,751
NUMBER OF CUSTOMERS:					
Residential		43,991	43,408	43,756	43,252
Small Gen. Non Demand		4,127	4,092	4,127	4,071
Small Gen. Demand		980	987	987	1,000
Large General		116	116	116	115
Independent Power Producer		3	2	3	2
Private St. Lights		526	525	526	531
	Sub-total	49,743	49,130	49,515	48,971
Government Service:					
Small Non Demand		675	696	681	689
Small Demand		353	348	348	341
Large		45	45	45	45
Street Lighting		297	163	253	161
	Sub-total	1,370	1,252	1,328	1,235
	Total	51,113	50,382	50,842	50,206
US Navy		1	1	1	1
		51,114	50,383	50,843	50,207

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GUAM POWER AUTHORITY ACCRUED REVENUE

		TWELVE	SEPTEMBER 2017	AUGUST 2017		JULY 2017		UNE 017	MAY 2017		APRIL 2017		MARCH 2017	FEBRUARY	JANUARY	DECEMBE	R		OCTOBER 2016
KWH SALES:	WO	NIHS ENDED	2017	2017		2017	2	017	2017		2017		2017	2017	2017	2016		2016	2016
Residential		506,335,602	41,491,015	44,434,7	10	45,094,364	45	5,699,553	46,940,445		42,105,054		40,911,781	35,936,337	39,423,550	41,105,		40,882,645	42,310,523
		83,899,700		7.347.4												6.987.			
Small General Non Demand			7,022,092	16.488.2		7,087,373 15.839.125		7,546,692	7,375,238 16.415.592		6,926,353		6,767,505	6,497,885	6,647,367	6,987,		6,646,441	7,048,061 16.040.892
Small General Demand		190,050,925	15,509,408					6,853,701			15,638,177		16,300,307	13,890,958	15,535,910			15,504,615	
Large General		314,573,231	25,432,034	27,038,0		27,119,633	26	5,399,095	27,209,329		25,771,823		26,173,462	23,699,969	26,550,140	26,487,		26,823,315	25,868,811
Private Outdoor Lighting		450,462	34,586	33,3		35,412		36,199	31,956		34,275		34,097	32,325	36,736	39,9		52,271	49,285
Independent Power Producer		1,003,769	76,532	57,7		82,800		93,447	97,039		78,158		83,841	67,797	92,493	96,		87,525	90,319
Sub-Total		1,096,313,688	89,565,666	95,399,5	08	95,258,706	96	5,628,687	98,069,599		90,553,840		90,270,993	80,125,270	88,286,197	90,750,	519	89,996,812	91,407,891
Government Service:																			
Small Non Demand		13,902,246	1,246,106	1,243,4	87	1,254,979		1,154,625	1,242,514		1,118,738		1,123,675	996,603	1,079,470	1,121,	641	1,122,985	1,197,422
Small Demand		96,878,602	8,084,368	8,147,3	86	7,962,644	7	7,847,651	8,507,100		7,890,703		8,171,598	7,382,544	7,897,069	8,060,	205	8,436,888	8,490,446
Large		74,897,969	6,493,449	6,520,6	99	6,219,351	e	5,043,966	6,712,069		6,145,212		6,340,287	5,654,767	6,032,854	6,238,	617	6,094,610	6,402,088
Street Lighting (Agencies)		9,514,606	697,002	877,1	30	638,971		843,815	771,506		720,057		829,968	707,509	539,658	994,	072	997,687	897,232
Sub-Total		195,193,422	16,520,925	16,788,7	02	16,075,944	15	5,890,058	17,233,190		15,874,710		16,465,529	14,741,423	15,549,052	16,414,	534	16,652,169	16,987,187
Total		1,291,507,110	106,086,591	112,188,2	10	111,334,651	112	2,518,745	115,302,789		106,428,550		106,736,522	94,866,692	103,835,249	107,165,	053	106,648,982	108,395,078
U.S. Navy		318,585,901	26,906,320	26,608,7	21	27,892,205	25	5,258,344	27,710,121		26,158,807		28,394,970	22,750,741	27,625,278	27,468,	943	26,586,150	25,225,302
									, .,				-,,	, ,					., .,
Grand Total		1,610,093,011	132,992,911	138,796,9	30	139,226,856	137	7,777,089	143,012,910		132,587,357		135,131,492	117,617,433	131,460,526	134,633,	996	133,235,131	133,620,381
REVENUE:																			
Residential	\$	100,601,977	8,887,320	\$ 9,762,8	10 \$	9,056,344	5 9	9,109,920	\$ 9,464,539	\$	8,447,732	\$	8,255,658 \$	7,648,484 \$	7,213,121	\$ 7,527,	553 \$	7,455,636 \$	7,772,860
Small General Non Demand	ŝ	20.040.732			60 S	1.709.931	5 1	1.790.832	\$ 1.782.557	ŝ	1.661.818	ŝ	1.647.869 \$	1.650.380 \$	1,468,355	\$ 1.572.	329 \$	1.481.078 \$	1.588.926
Small General Demand	ŝ	42,069,517				3,527,191		3,704,661		ŝ	3,333,389		3,674,304 \$		3,200,532				3,297,206
Large General	ŝ	64,178,060				5,589,484		5,443,855		ŝ	5.382.999		5,370,285 \$		4,998,015				4,900,077
Private Outdoor Lighting	š	306.957				25.099			\$ 24.432		25.014		25.012 \$		25.546		575 \$		28.060
Independent Power Producer	š	211.031				17.270			\$ 20.386		16.006		17.451 \$		18.807		759 \$		18,478
Sub-Total	š	227,408,274				19,925,320			\$ 20,741,919		18,866,957		18,990,578 \$		16,924,376				
Government Service:	-	227,400,274	20,049,007	φ 21,050,0	υ υ φ	13,523,320	p 20	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	\$ 20,741,919	φ	10,000,307	φ	10,330,370 \$	17,713,032 \$	10,524,570	φ 17,000,	2447 φ	17,201,335 \$	17,000,007
Small Non Demand	s	3.513.008	333.079	\$ 332.3		319.135		297,031	\$ 313.817		289.279		289.226 \$	258.835 \$	258.411	¢ 2001	979 \$	268.355 \$	284.537
Small Demand	ŝ	22.830.078				1.907.628			\$ 1.985.615		1.919.140		1.956.670 \$		1.746.554				1.856.926
	ŝ																		
Large	-	16,979,365				1,424,292				\$	1,374,482		1,454,690 \$		1,286,951		239 \$		1,355,735
Street Lighting (Agencies)	ş	5,438,696				418,012			• 100,100	\$	431,759		447,332 \$		351,576		266 \$		437,139
Sub-Total	\$	48,761,148				4,069,066			* .,,	\$		\$	4,147,918 \$		3,643,492				3,934,337
Total	\$	276,169,422				23,994,386				\$		\$	23,138,496 \$			\$ 21,485,			21,539,944
U.S. Navy	\$	54,904,634				5,331,702			\$ 5,160,265			\$	5,232,508 \$		4,519,844				4,055,968
Grand Total	\$	331,074,056	\$ 29,769,728	\$ 31,191,5	16 \$	29,326,087	\$ 28	3,580,567	\$ 30,213,220	\$	27,164,645	\$	28,371,004 \$	25,204,958 \$	25,087,712	\$ 25,731,	231 \$	24,837,474 \$	25,595,912
NUMBER OF CUSTOMERS:																			
Residential		43,756	43,991	43,9	69	43,866		43,902	43,803		43,807		43,718	43,647	43,710	43	582	43,594	43,487
Small General Non Demand		4,127	4,127	4,1	34	4,131		4,145	4,130		4,137		4,128	4,119	4,127	4	125	4,110	4,114
Small General Demand		987	980	9	81	984		988	988		988		989	992	994		991	980	985
Large General		116	116	1	15	116		116	117		115		116	116	116		116	116	115
Private Outdoor Lighting		526	526	5	27	526		527	530		528		528	527	525		517	519	526
Independent Power Producer		3	3		3	3		3	3		3		3	3	3		3	3	3
Sub-Total		49.515	49.743	49.7	29	49.626		49.681	49.571		49.578		49.482	49.404	49.475	49	334	49.322	49.230
Government Service:			-, -	.,		.,		.,			.,		., .	., .	., .			.,.	.,
Small Non Demand		681	675	e	78	678		677	684		684		684	682	684		680	683	684
Small Demand		348	353		51	352		349	346		347		348	347	347		346	346	345
Large		45	45		45	45		45	45		45		45	45	45		45	45	45
Street Lighting (Agencies)		253	297		97	297		297	293		290		272	271	211		205	155	155
Sub-Total		1.328	1,370	1,3		1.372		1.368	1.368		1.366		1.349	1,345	1.287		276	1.229	1.229
Total		50.842	51.113	51.1		50.998		51,049	50.939		50,944		50,831	50,749	50,762		610	50,551	50,459
U.S. Navy		50,642	51,113	31,1	1	50,998		51,049	50,939		30,344		50,631	50,749	50,762	50	1	50,551	50,459
		-	-		-						1			-	-			-	-
Grand Total		50,843	51,114	51,1	01	50,999		51,050	50,940		50,945		50,832	50,750	50,763	50	611	50,552	50,460

GPA303

GUAM POWER AUTHORITY ACCRUED REVENUE SEPTEMBER 2017

D.175	NUMBER		TOTAL RE	VENUE		BASE I	RAT	E REVENUE	AVERAGE PE	R CUST	OMER						
RATE	OF CUSTOMERS	KWH SALES	AMOUNT	C/KWH	c	с/кwн		AMOUNT	кwн	REVE	NUE	C/KWH	NO	N-FUEL AMOUNT	C/KWH	FUE	
Month																	
R Residential	43,991	41,491,015				21.42		8,887,320	943		202	9.6481			\$ 11.7718		4,884,239
G Small Gen. Non Demand	4,127		\$ 1,783,997			25.41		1,783,997	1,702		432	13.6337			\$ 11.7718		826,627
J Small Gen. Demand	980		\$ 3,692,273		\$	23.81		3,692,273			3,768	12.0388			\$ 11.7678		1,825,123
P Large General	116	25,432,034						5,643,059	219,242		8,647	10.4766			\$ 11.7121		2,978,635
I Independent Power Producer	3 526	76,532 34,586		\$ 22.31 \$ 73.33		22.31 73.33		17,076 25.361	25,511 66	\$ \$	5,692 48	10.9191 61.5558			\$ 11.3936		8,720 4.071
H Private St. Lights							\$								\$ 11.7718		
Sub-Total Government Service:	49,743	89,565,666	\$ 20,049,087	\$ 22.38	\$	22.38	\$	20,049,087	1,801	\$	403	10.6309	\$	9,521,672	\$ 11.7539	\$	10,527,415
Government Service:																	
S Small Non Demand	675	1,246,106	\$ 333,079	\$ 26.73	\$	26.73	\$	333,079	1,846	\$	493	14.9578	\$	186,389	\$ 11.7718	\$	146,689
K Small Demand	353	8,084,368	\$ 2,050,292	\$ 25.36	\$	25.36	\$	2,050,292	22,902	\$	5,808	13.5894	\$		\$ 11.7718		951,676
L Large	45	6,493,449	\$ 1,575,080	\$ 24.26	\$	24.26	\$	1,575,080	144,299	\$ 3	5,002	12.6242	\$	819,746	\$ 11.6322	\$	755,334
F Street Lighting (Agencies)	297	697,002	\$ 436,808	\$ 62.67	\$	62.67	\$	436,808	2,347	\$	1,471	50.8978	\$	354,759	\$ 11.7718	\$	82,050
Sub-Total	1,370	16,520,925	\$ 4,395,259	\$ 26.60	\$	26.60	\$	4,395,259	12,059	\$	3,208	14.8872	\$	2,459,511	\$ 11.7169	\$	1,935,748
	51,113	106,086,591	\$ 24,444,346	\$ 48.99	\$	48.99	\$	24,444,346	2,076	\$	478	11.2938	\$	11,981,182	\$ 11.7481	\$	12,463,163
U.S. Navy	1	26,906,320	\$ 5,325,383	\$ 19.79	\$	19.79	\$	5,325,383				7.0364	\$	1,893,246	\$ 12.7559	\$	3,432,137
TOTAL	51,114	132,992,911	\$ 29,769,728	\$ 22.38	\$	22.38	\$	29,769,728	2,602	\$	582	10.4325	\$	13,874,428	\$ 11.9520	\$	15,895,300
Twelve Months Ended September 2017																	
R Residential	43.756	506.335.602	\$100.601.977	\$ 19.87	\$	19.87	\$	100.601.977	11.572	\$	2.299	9.6242	s	48.730.504	\$ 10.2445	\$	51.871.474
G Small Gen. Non Demand	4,127	83,899,700	\$ 20.040.732	\$ 23.89	Ś	23.89	Ś	20,040,732	20.328	Ś.	4.856	13.6440	Ś	11,447,234	\$ 10.2426	ŝ	8.593.498
J Small Gen. Demand	987	190,050,925	\$ 42,069,517	\$ 22.14	\$	22.14	\$	42,069,517	192,619	\$ 4	2,638	11.9302	Ś		\$ 10.2057		19,396,028
P Large General	116			\$ 20.40		20.40	\$	64,178,060	2,715,740	\$ 55	4,055	10.3044	ŝ	32,414,812			31,763,248
I Independent Power Producer	3	1,003,769	\$ 211,031	\$ 21.02	\$	21.02	\$	211,031	334,590	\$ 7	0,344	11.1629	\$	112,050	\$ 9.8610	\$	98,982
H Private St. Lights	526	450,462	\$ 306,957	\$ 68.14	\$	68.14	\$	306,957	857	\$	584	58.1765	\$	262,063	\$ 9.9663	\$	44,894
Sub-Total	49,515	1,096,313,688	\$227,408,274	\$ 20.74	\$	20.74	\$	227,408,274	22,141	\$	4,593	10.5481	\$	115,640,151	\$ 10.1949	\$	111,768,124
Government Service:																	
S Small Non Demand	681	13 902 246	\$ 3,513,008	\$ 25.27	\$	25.27	¢	3.513.008	20.412	¢ .	5.158	15.1371	¢	2 104 396	\$ 10.1323	¢	1,408,613
K Small Demand	348		\$ 22,830,078	\$ 23.57	ŝ	23.57	ŝ	22,830,078	278.320		5.588	13.4742		13,053,603			9,776,475
L Large	45			\$ 22.67	ŝ	22.67		16,979,365	1,664,399		7.319	12.6110			\$ 10.0590		7,533,951
F Street Lighting (Agencies)	253		\$ 5,438,696			57.16		5.438.696	37.558		1.469	47.1113			\$ 10.0502		956.241
Sub-Total	1.328		\$ 48,761,148			24.98		48,761,148	147,038		6,732	14.9010		29,085,867			19,675,280
000 1000	.,020		•,	• =	•		•	-10,1 0 1,1 10	,	• •			Ť	20,000,001	•	•	10,010,200
U.S. Navy	1	318,585,901	\$ 54,904,634	\$ 17.23	\$	17.23	\$	54,904,634				6.2537	\$	19,923,387	\$ 10.9802	\$	34,981,246
TOTAL	50,843	1,610,093,011	\$ 331,074,056	\$ 20.56	\$	20.56	\$	331,074,056	31,668	\$	6,512	10.2261	\$	164,649,406	\$ 10.3363	\$	166,424,650
Twelve Months Ending September 2017																	
R Residential	43.756	506.335.602	\$100.601.977	\$ 19.87	\$	19.87	\$	100.601.977	11.572	\$	2.299	9.6242	\$	48.730.504	\$ 10.2445	\$	51.871.474
G Small Gen. Non Demand	4,127	83.899.700	\$ 20,040,732	\$ 23.89	Ś	23.89	Ś	20,040,732	20.328	Ś.	4,856	13.6440	Ś	11,447,234	\$ 10.2426	Ś	8.593.498
J Small Gen. Demand	987	190,050,925	\$ 42,069,517	\$ 22.14	\$	22.14	\$	42,069,517	192,619	\$ 4	2,638	11.9302	\$	22,673,489	\$ 10.2057	\$	19,396,028
P Large General	116	314,573,231	\$ 64,178,060	\$ 20.40	\$	20.40	\$	64,178,060	2,715,740	\$ 55	4,055	10.3044	Ś	32,414,812	\$ 10.0973	\$	31,763,248
I Independent Power Producer	3	1,003,769	\$ 211,031	\$ 21.02	\$	21.02	\$	211,031	334,590	\$ 7	0,344	11.1629	\$	112,050	\$ 9.8610	\$	98,982
H Private St. Lights	526	450,462	\$ 306,957	\$ 68.14	\$	68.14	\$	306,957	857	\$	584	58.1765	\$	262,063	\$ 9.9663	\$	44,894
Sub-Total	49,515	1,096,313,688	\$227,408,274	\$ 20.74	\$	20.74	\$	227,408,274	22,141	\$	4,593	10.5481	\$	115,640,151	\$ 10.1949	\$	111,768,124
Government Service:																	
	681	40.000.040	¢ 0.540.000	e 05 07		05 07		2 542 000	00.440		- 4 - 0	45 4074		0 404 200	¢ 40.4000		4 400 640
S Small Non Demand K Small Demand	681 348		\$ 3,513,008 \$ 22.830.078			25.27 23.57	\$ \$	3,513,008 22.830.078	20,412 278.320		5,158 5.588	15.1371 13.4742		2,104,396	\$ 10.1323		1,408,613 9.776.475
L Large	340		\$ 22,830,078		•			16.979.365	1,664,399		5,566 7.319	12.6110			\$ 10.0915		9,776,475
F Street Lighting (Agencies)	45 253		\$ 5,438,696					5.438.696	37.558		1.469	47.1113			\$ 10.0590		956.241
Sub-Total	1,328		\$ 48,761,148			24.98		48,761,148	147,038		6,732	14.9010		29,085,867			19,675,280
Sub-Total	1,328	1,291,507,110				24.98	э \$	276,169,422	25,402		0,732 1,324	11.2060		29,085,867 144,726,018			131,443,404
U.S. Navy	50,042		\$ 54,904,634				э \$	54,904,634	23,402	φ 4	1,524	6.2537		19,923,387			34,981,246
-	•	3.0,000,001			Ŷ		Ŧ	01,001,004				0.2001	Ŧ	,020,001		Ŧ	
TOTAL	50,843	1,610,093,011	\$331,074,056	\$ 20.56	\$	20.56	\$	331,074,056	31,668	\$	6,512	10.2261	\$	164,649,406	\$ 10.3363	\$	166,424,650

GPA-318

ENERGY ACCOUNT

FOR INTERNAL USE ONLY

318Sep17

FY 2017 Versus FY 2016

	September 20	17	September 2	016	Y T D 201	7	Y T D 20	16	MOVING TWELV	E MONTHS
Gross Generation										
Number of days in Period	30		30		365		305		365	
Peak demand	254		256		261		258		261	
Date	09/19/17		09/05/16		08/01/17		07/25/16		08/01/17	
	К₩Н	% change	KWH	% change	KWH	% change	KWH	% change	KWH	% change
Energy Account:										
Kilowatt hours GPA:										
Cabras 1 & 2	43,379,000		34,919,000		694,993,000		640,287,000		694,993,000	
Cabras No. 3	0		0		0		0		0	
Cabras No. 4	0		0		0		0		0	
MEC (ENRON) Piti 8 (IPP)	28,279,500		29,192,500		319,633,700		281,612,350		319,633,700	
MEC (ENRON) Piti 9 (IPP)	27,521,700		23,932,900		308,062,300		314,537,200		308,062,300	
TEMES Piti 7 (IPP)	9,342,829		11,037,200		46,981,369		97,482,153		46,981,369	
Tanguisson 2	0		0		0		0		0	
Tanguisson 1	0		0		0		0		0	
Diesels/CT's & Others:							0			
MDI 10MW	0		1,227,212		2,257,627		10,784,474		2,257,627	
NRG Solar Dandan	3,971,229		3,420,080		43,190,802		49,550,327		43,190,802	
Dededo CT #1	2,801,170		0		7,123,300		0		7,123,300	
Dededo CT #2	1,214,370		0		5,832,592		0		5,832,592	
Macheche CT	7,734,370		0		55,567,556		50,634,675		55,567,556	
Yigo CT (Leased)	6,967,293		7,794,820		41,375,947		48,405,494		41,375,947	
Tenjo	5,274,540		4,594,580		45,457,480		47,918,189		45,457,480	
Talofofo 10 MW	1,703,310		1,935,110		18,771,390		11,208,933		18,771,390	
Aggreko	6,609,790		23,037,937		173,446,539		168,092,181		173,446,539	
Wind Turbine*	6,766		25,057,957		387,195		381,279		387,195	
Orote	0,700		13,904		387,193		581,279		387,195	
Marbo	0		0		0		0		0	
B. J. J. J. J.	144,805,867		141,107,243	00.00	1,763,080,797		1,720,894,255		1,763,080,797	
Ratio to last year		102.62		98.20		102.45		100.53		102.4
Station use	5,200,512		4,562,720		65,894,996		64,951,789		65,894,996	
Ratio to Gross generation		3.59		3.23		3.74		3.77		3.7
Jet send out	139,605,354		136,544,523		1,697,185,801		1,655,942,466		1,697,185,801	
Ratio to last year	157,005,554	102.24	150,544,525	99.07	1,097,105,001	102.49	1,055,742,400	101.66	1,097,105,001	102.4
Ratio to last year		102.24		99.07		102.49		101.00		102.
KWH deliveries:										
Sales to Navy (@34.5kv)	26,906,320		26,000,826		318,585,903		315,510,883		318,585,903	
Ratio to last year		103.48		96.17		100.97		100.22		100.1
GPA-metered	112,699,034		110,543,697		1,378,599,898		1,340,431,583		1,378,599,898	
Ratio to last year	, ,	101.95	, ,	99.78		102.85		102.01		103.0
Power factor adj.	0		0		0		0		0	1000
Adjusted	112,699,034		110,543,697		1,378,599,898		1,340,431,583		1,378,599,898	
GPA KWH Accountability:			110,0 10,007		1,570,579,090		-,5 10, 15 1,505		1,0,0,000,000	
Sales to civilian customers-										
accrual basis	106,086,591		103,930,914		1,291,507,112		1,256,257,297		1,291,507,112	
Ratio to last year	100,000,391	102.07	105,950,914	99.87	1,291,307,112	102.81	1,200,201,201	102.79	1,291,307,112	102.
GPA use-KWH	252,156	102.07	250,698	99.87	2 144 229	102.81	2 221 842	102.79	2 144 220	102.
					3,144,238		3,321,842		3,144,238	
Unaccounted For	6,360,287	5.04	6,362,085	F 70	83,948,548	0.00	80,852,444	0.00	83,948,548	~
Ratio to deliveries		5.64		5.76		6.09		6.03		6.
Ratio to Gross Generation Ratio to Net Send Out		4.39 4.56		4.51 4.66		4.76 4.95		4.70 4.88		4.

GPA-317Sep17

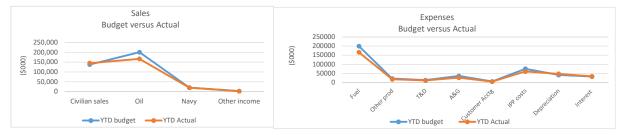
Guam Power Authority Fuel Consumption FY 2017

	Septembe	er 2017	YEAR	-TO	-DATE	MOVING	12	MONTHS
Description	BARRELS	AMOUNT	BARRELS	A	AMOUNT	BARREL S	A	AMOUNT
FUEL FURNISHED:								
NAVY:								
Diesel	0	0	0		0	0		0
Low Sulfur	0	0	<u>0</u>		<u>0</u>	<u>0</u>		<u>0</u>
	0	0	0		0	0		0
GPA:								
RFO	85,453	\$4,837,376	1,524,120	\$	80,917,744	1,524,120	\$	80,917,744
Diesel	88,950	\$6,532,395	797,873	\$	57,031,451	797,873	\$	57,031,451
Low Sulfur	59,213	\$3,639,737	488,847	\$	27,946,899	488,847	\$	27,946,899
Deferred Fuel Costs	0	-\$1,110,058	0	\$	(15,258,723)	0	\$	(15,258,723)
Fuel Adjustments	0	-\$138,595		\$	(203,380)	0	\$	(203,380)
Fuel Handling Costs	0	\$2,134,446	0	\$	15,990,792	0	\$	15,990,792
-	233,617	\$15,895,300	2,810,840	\$	166,424,782	2,810,840	\$	166,424,782
IWPS:								
GPA RFO	85,453	\$4,837,376	1,524,120	\$	80,917,744	1,524,120	\$	80,917,744
Diesel	88,950	\$6,532,395	797,873	\$	57,031,451	797,873	\$	57,031,451
Low Sulfur	59,213	\$3,639,737	488,847	\$	27,946,899	488,847	\$	27,946,899
Deferred Fuel Costs	0	-\$1,110,058	0	\$	(15,258,723)	0	\$	(15,258,723)
Fuel Variance	0	-\$138,595		\$	(203,380)		\$	(203,380)
Fuel Handling Costs	0	\$2,134,446		\$	15,990,792	0	\$	15,990,792
5	233,617	\$15,895,300		\$	166,424,782	2,810,840	\$	166,424,782
AVERAGE COST/Bbl.								
GPA RFO		\$56.61			\$53.09			\$53.09
Diesel		\$73.44			\$71.48			\$71.48
Low Sulfur		\$61.47			\$57.17			\$57.17
AS BURNED								
Cabras 1 & 2								
RFO	39,989	\$ 2,263,687	967,470	\$	51,608,686	967,470	\$	51,608,686
Low Sulfur	32,209	\$ 1,979,852		\$	11,337,564	201,434	\$	11,337,564
Diesel	276		2,823	\$	186,425		\$	186,425
	72,474		-	\$	63,132,676	1,171,726		63,132,676
Cabras 3 & 4		• ,,-	, , , , ,		, - ,	, . ,		, - ,
RFO	0	\$ -	0	\$	-	0	\$	-
Low Sulfur	0	\$ -	0	\$	-	0	\$	-
Diesel	0	\$ -	0	\$	-	0	\$	-
	0	\$ -	0	\$	-	0	\$	
MEC (Diti Unite 9 P.0)	0	Ψ	Ű	φ	<u> </u>	Ũ	Ψ	
MEC (Piti Units 8&9) RFO	15 165	\$ 2572690	556 651	\$	29,309,058	556 651	\$	29,309,058
Low Sulfur	45,465 27,004		,	ծ Տ		,	ծ Տ	
Diesel	27,004	\$ 1,659,885 \$ -	287,413 40	ծ Տ	16,609,335 2,194	,	ծ Տ	16,609,335
Diesei	<u>0</u> 72,469		<u>40</u> 844,104		45,920,588	<u>40</u> 844,104		<u>2,194</u> 45,920,588
Diesel & CT's - GPA:	72,409	\$ 4,235,574	844,104	ф	43,920,388	844,104	ф	45,920,588
MDI Dsl	0	s -	3,605	\$	220 124	3,605	\$	229,124
			,		229,124	<i>,</i>		
Macheche CT	16,721		120,598		8,733,592	120,598		8,733,592
Yigo CT	13,794		86,459		6,112,513	86,459		6,112,513
Talofofo 10 MW	2,848		31,482		2,251,892	31,482		2,251,892
Aggreko	12,089		313,889		22,101,465	313,889		22,101,465
Tenjo TEMES (IDD)	9,283		79,249		5,824,613	79,249		5,824,613
TEMES (IPP)	22,485		118,326		8,556,670	118,326		8,556,670
GWA Generators	<u>326</u>		<u>509</u>		59,948	<u>509</u>		59,948
	88,674	\$ 6,512,219	795,011	\$	56,842,831	795,011	\$	56,842,831
Deferred Fuel Costs	0	\$ (1,110,058)		\$	(15,258,723)		\$	(15,258,723)
Adjustment	0	\$ (1,110,038) \$ (138,595)		ծ \$			ծ Տ	(15,258,725) (203,380)
•	0	\$ (138,595) <u>\$ 2,134,446</u>		ծ Տ	(203,380) 15,990,792		ծ Տ	(203,380) 15,990,792
Fuel Handling Costs	<u>0</u> 233,617	<u>\$ 2,134,446</u> \$ 15,895,300	2,810,840	<u>\$</u>		2,810,840	<u>5</u> \$	
TOTAL	233,017	\$ 15,695,500	2,010,040	\$	166,424,782	2,010,040	3	166,424,782

Statement of operations

Comparison-Budget versus Actual For the month and year to date ended September 30, 2017

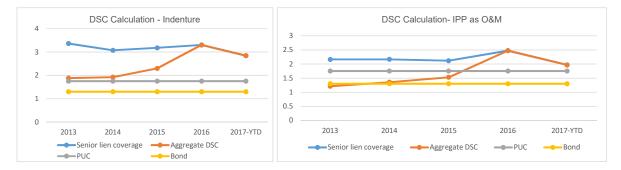
		Actual				
	Budget	September-17	Variance	YTD Budget	YTD Actual	Variance
KwH Sales-Civilian	100,886	106,087	-5,201	1,208,787	1,291,509	-82,722
Non-fuel yield \$	0.113412	\$ 0.112936 \$	0.000477 \$	0.113639 \$	0.112058 \$	0.001581
KwH Sales-Navy	28,351	26,906	1,445	332,182	318,585	13,59
Non-fuel yield \$	0.061275	\$ 0.070356 \$	(0.009081) \$	0.061275 \$	0.062539 \$	(0.001264
Operating revenue						
Civilian sales	11,442	11,981	(539)	137,365	144,724	(7,359
Oil	16,775	15,895	880	200,015	166,423	33,592
Navy	1,737	1,893	(156)	20,355	19,924	431
Other income	217	103	113	2,600	2,245	355
	30,171	29,872	298	360,334	333,316	27,019
Bad debts expense	83	(515)	598	1,000	472	528
Total operating revenues	30,087	30,387	(300)	359,334	332,843	26,491
Operating expenses:						
Production fuel	16,775	15,895	880	200,015	166,425	33,590
O & M expenses:						
Other production	1,827	3,230	(1,403)	21,926	17,784	4,142
Transmission distribution	1,080	941	139	12,960	11,704	1,256
Administrative expense	2,993	3,027	(33)	35,921	26,798	9,123
Customer accounting	382	456	(73)	4,587	4,284	303
	6,283	7,653	(1,370)	75,394	60,570	14,824
IPP costs	1,486	1,769	(283)	17,835	19,935	(2,100
Depreciation	3,484	4,147	(663)	41,804	47,607	(5,803
	28,028	29,464	(1,437)	335,048	294,537	40,511
Operating income	2,060	923	1,137	24,286	38,306	(14,020
Other revenue (expenses):						
Investment income	115	347	(232)	1,384	1,722	(338
Interest expense	(2,735)	(2,667)	(68)	(32,821)	(33,749)	929
AFUDC	118	272	(154)	1,420	3,676	(2,256
Bond issuance costs/Other expenses	127	(153)	280	1,522	(77)	1,599
Net income before capital contribution	(315)	(1,278)	962	(4,208)	9,878	(14,087
Grants from the U.S. Government	-	9	(9)	-	153	(153
Increase (decrease) in net assets	(315)	(1,269)	953	(4,208)	10,031	(14,240



Guam Power Authority Debt service coverage

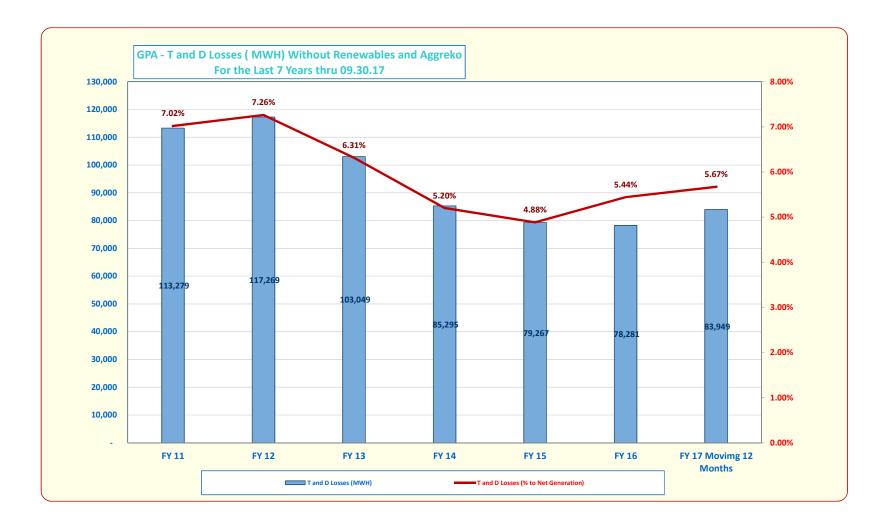
Sep	tem	ber	30,	, 20	1/	

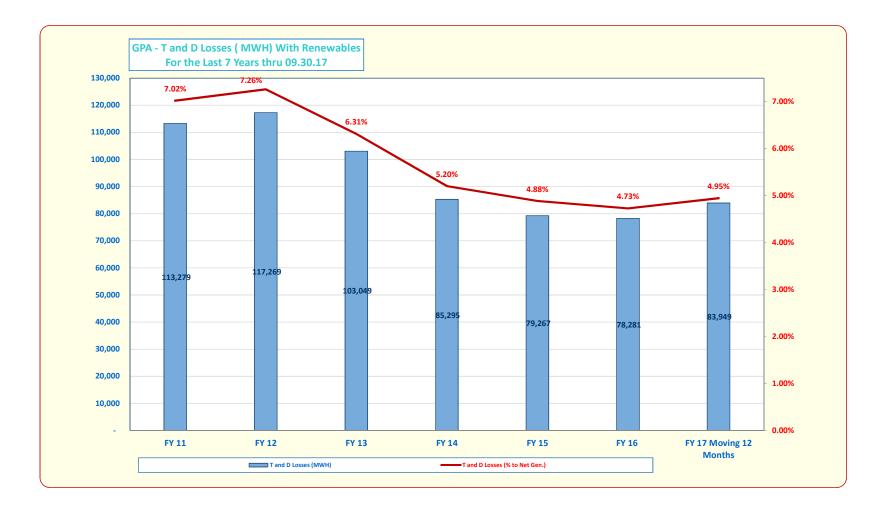
	2013	2014	2015	2016	YTD 9/30/2017
Operating revenues	2013	2014	2015	2010	9/30/2017
Sales	449,029	434,462	366,185	306,896	331,07
Miscellaneous	2,927	2,156	4,775	2,294	2,245
Total revenues	451,956	436,618	370,960	309,190	333,310
	,		,		
Bad debts expense Total operating revenues	<u>1,223</u> 450,733	178 436,440	959 370,001	990 308,200	47: 332,84
Total operating revenues	450,755	450,440	370,001	508,200	552,64
Operating expenses					
Production fuel	295,473	271,175	204,136	146,340	166,42
Other production	22,009	19,305	20,079	15,835	17,78
Energy conversion costs	20,264	20,632	18,404	16,800	19,93
Transmission and distribution	13,368	12,950	11,170	10,817	11,70
Customer accounting	3,878	3,821	3,780	4,502	4,28
Admin and General	31,589	28,393	21,908	29,058	26,79
Total Expenses	386,581	356,276	279,477	223,352	246,93
Operating income	64,152	80,164	90,524	84,848	85,91
Interest/Other income (expenses)	720	157	256	57	(3
Debt service and lease payments	22.004		26,622	20 700	20.70
IPP lease payments	23,084	23,084	26,622	20,790	20,79
Capital lease payments-Aggreko	-	-	-	-	5,60
2014 bonds	-	-	-	10	5,08
2012 bonds	16,309	17,455	17,096	17,098	17,45
2010 senior bonds	2,997	7,999	7,999	7,999	7,99
2010 subordinate	15,163	15,193	9,605	-	-
Total Debt service-bonds	34,469	40,647	34,700	25,106	30,53
Fotal Debt service and capital lease	57,553	63,731	61,322	45,896	56,93
Debt service coverage (DSC) calculation-indenture					
Senior lien coverage	3.36	3.16	3.62	3.38	2.8
Aggregate debt service coverage	1.88	3.16 1.98	2.62	3.38	2.
אפו בפמיב מבחי זבו זורב רחאבו שפר	1.88	1.98	2.02	5.36	2.
Debt service coverage (DSC) calculation-IPP as O&M					
Senior lien coverage	2.16	2.25	2.56	2.55	1.
Aggregate debt service coverage	1.21	1.41	1.85	2.55	1



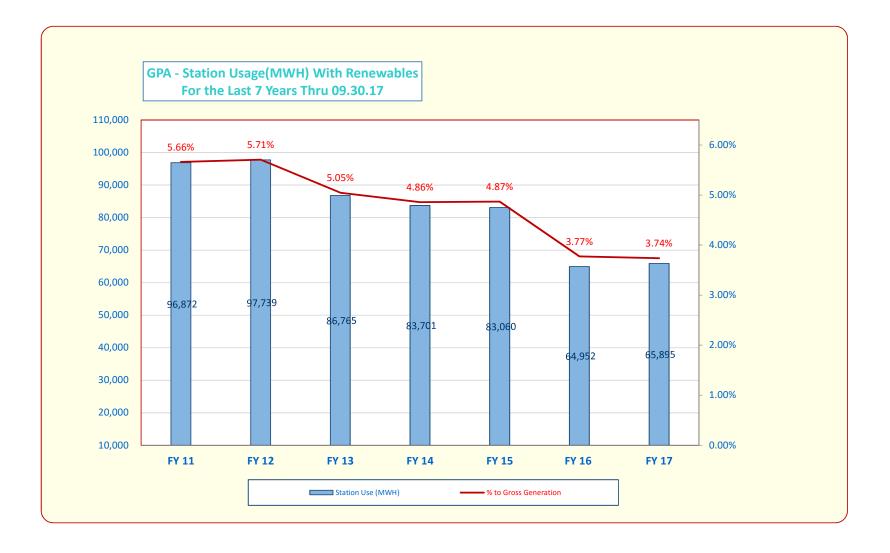
Small General-Densard 14:07.246 11:509-048 (090-017) 34:57.236 1050.026 (050.026) (252.38) 4.019 Densard 14:07.246 (150.026) 4.019 Phase Bi Line 15.227.240 34:080 (170.09) -3.776 (152.247.2017) 426.311.64 (170.09) 72.786 Bib Actal 24.019 (170.09) -3.776 (152.247.2017) 426.311.64 (170.09) 72.786 Bib Actal 24.019 (170.09) -3.776 (152.247.2017) 426.311.64 (170.09) 73.132 (170.09		REVENUES-ACTUAL VS PROJECTIONS							
NM Constrain Source of the second se		м	ONTHLY - SEPT	EMBER 2017			YTD THRU 0	9/30/2017	
Residential 35.982.230 41.481.915 448.738 12.18% 440.202.278 93.83.601 65.013.41 15.007 Band General Accounts 6.60.332 15.007 83.90.128 15.007 83.90.128 15.007 83.90.128 15.001 83.90.128 15.001 83.90.128 15.001 83.90.128 15.001 83.90.128 15.001 83.90.128 15.001 83.90.128 15.001 83.90.128 15.001 83.90.128 15.001 93.901 <th></th> <th>PROJECTIONS</th> <th>ACTUAL</th> <th>VARIANCE</th> <th>% VARIANCE</th> <th>PROJECTIONS</th> <th>ACTUAL</th> <th>VARIANCE</th> <th>% VARIANCE</th>		PROJECTIONS	ACTUAL	VARIANCE	% VARIANCE	PROJECTIONS	ACTUAL	VARIANCE	% VARIANCE
Shall General-Non-Deniend 5.466.081 7.022.082 1.376.011 24.37% P7.085.288 6.288.700 16.074.470 24.97% P7.085.288 7.00 16.074.470 24.97% P7.085.288 7.00 16.074.07% P7.085.288 7.00 16.074.07% P7.085.288 7.00 25.07% P7.085.288 7.00		36,992,280	41,491,015	4,498,736	12,16%	440.300.279	506.335.601	66.035.323	15.00%
Large methodates 20.337.103 22.42.034 (05.091) 3.44.% 37.130.81.9 314.07.231 (0.257.89) 0.457.8 Distrobal State 20.237.8 (0.257.8 0.2	Small General-Non-Demand	5,646,081	7,022,092	1,376,011	24.37%	67,885,283	83,899,700	16,014,417	23.59%
Insignator Prose Products 33.365 71.532 38.177 90.535 600.201 1.033.706 1.033.706 72.249 Prode R Lines 95.272.841 95.475.841 95.475.841 97.269 72.847 72.847 Smart Nuc Domaid 1.131.816 1.245.106 100.857.102 97.252.24 93.040 1.033.766 12.322.241 72.847 72.847 Smart Nuc Domaid 1.131.816 1.245.101 100.857.102 97.252.22 13.722.240 13.93.060 0.95.752.22 13.722.240 13.93.060 1.52.847 13.848 0.81.112.848 0.8									
Sub-total Box 77,81 Box 77,85 4.77% 4.77% 1.022.200.79 1.088.21 33.88 77.677 77.85 77.85	Independent Power Producers	38,355	76,532		99.53%	620,291	1,003,769	383,478	61.82%
Small, Non-Domand 1,130,149 1,246,109 106,899 0.395 14,032,222 13,02,246 (1,30,08) -0.095 Palle Status 0.835,500 077,022 (1,83,02,247) 15,312,268 0.737,222 0.737,222 0.737,222 0.737,222 0.737,222 0.737,222 0.737,222 0.737,222 0.737,222 0.737,222 0.737,222 0.737,222 0.737,222 0.737,222 0.737,222 0.737,222 0.737,223 0.737,223 0.737,223 0.737,223 0.737,223 0.737,223 0.737,233 0.737,223 0.737,233 0.737,233 0.737,233 0.737,233 0.737,233 0.737,233 0.737,233 0.737,233 0.737,233 0.737,233 0.737,233 0.737,233 0.7377,233 0.7377,233,237	Sub-total								-27.84% 7.24%
Lenge 6, 538,122 6, 6439,449 999,326 17,33% 65,000,253 7,487,268 9,987,75 15,227 7,248 1,248,249 1,158,249 2,145,00 1,251,227 1,158,249 2,145,00 1,251,227 1,158,249 2,145,00 1,251,227 1,158,249 2,145,10 1,251,227 1,158,257,23 1,251,257,24 1,251,227 1,251,257,24 1,251,227 1,251,257,24 1,251,227 1,251,252,24 1,257,24 1,254,247 1,252,247 1,252,247 1,252,247 1,252,247 1,252,247 1,252,247 1,252,247 1,252,247 1,252,247 1,252,247 1,252,247 1,252,247 1,252,247 1,252,247 1,252,247 1,252,247 1,252,247 1,252,252 1,252,24 1,257,24 1,252,254 1,257,24 1,257,257 1,	Small_Non Demand								-0.95%
Padie St. Line B3.360 e97.002 (198.588) 21.15% 11.318.869 9.514,008 (19.16.42.00) -15.544 427 bist-total 12.22.774 15.20.221 4.16.42.79 Creat Total 22.277,82 12.20.221 3.754,94 2.21% 1.50.560,002 (13.96.316) -4.000 Creat Total 22.27% 1.50.560,002 (13.96.316) -4.000 Creat Total 20.000554 0.000545 0.000545 0.24% 1.50.560 (10.000375) -2.65% Small General-Non-Demand 0.137750 0.13855 0.000564 0.00054 0.45% 0.13755 0.138467 0.000554 0.000554 0.000545 0.45% 0.139750 0.138467 0.000556 0.4500 0.000563 0.25% 0.137750 0.138467 0.000757 0.5775 0.138457 0.000757 0.5775 0.138457 0.000757 0.55775 0.138457 0.000757 0.5775 0.0000757 0.5775 0.000757 0.5775 0.000757 0.5775 0.000757 0.5775 0.000757 0.5775 0.000757 0.5775 0.000757 0.5775 0.000757 0.5775 0.000757 0.5775 0.000757 0.5775 0.000757 0.5775 0.0000757 0.5775 0.0000757 0.5775 0.000059 0.200757 0.5775 0.000059 0.200757 0.5775 0.5755 0.000059 0.200757 0.5775 0.000059 0.200757 0.5775 0.000059 0.200757 0.5775 0.000059 0.200757 0.5775 0.000059 0.200757 0.5775 0.000059 0.200757 0.5755 0.000059 0.200757 0.5755 0.000059 0.200059 0.200757 0.5775 0.5755 0.0000059 0.200757 0.5755 0.000									0.78%
Total-Chilinia 106,066,649 106,065,614 5,000,073 5,154 1,208,777,38 1,237,19,772 6,464 Orand Total 123,227,462 123,927,411 3,745,444 2,3175 1,245,927,145 4,409 Mon Oil Yeld Residential 0,09654 0,09654 0,000213 0,09654 0,000213 0,09654 0,000213 0,09654 0,000223 0,000513 0,000513 0,000513 0,000513 0,000513 0,000513 0,000513 0,000513 0,000513 0,000513 0,000513 0,000513 0,000513 0,000513 0,000513 0,000524 0,100544 0,0000213 0,000513 0,000524 0,100544 0,0000213 0,000513 0,000513 0,000524 0,1002440 0,101627 0,000314 0,000324 0,000324 0,0003143 0,000524 0,000324 0,0003143 0,0003143 0,0003143 0,0003143 0,0003143 0,0003143 0,0003143 0,0003143 0,0003143 0,0003143 0,0003143 0,0003143 0,0003143 0,0003143 0,0003143 0,0003143									-15.94%
USN 23,314,44 25,005.300 (1,445,143) -5,10% 332,182,218 315,85,020 (1,256,316) -4,097 Nac Of Vield Residential 0.056554 0.056554 0.056554 0.056554 0.056554 0.056554 0.056554 0.056554 0.056554 0.056554 0.056554 0.056554 0.056554 0.056554 0.056554 0.056554 0.056554 0.056554 0.056554 0.056555 0.155505 0.157550 0.151520 0.000035 0.2575 0.151520 0.000355 0.056554 0.056556 0.155505 0.155575 0.155716 0.000777 0.5771 0.5771 0.5771 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>4.67%</td></t<>									4.67%
Non-Oli Yield Operation									-4.09%
Residential 0.068854 0.068854 0.068854 0.068854 0.068854 0.068854 0.068855 0.068855 0.068855 0.068855 0.068855 0.068855 0.068855 0.068855 0.068855 0.068855 0.068855 0.068855 0.068855 0.0111720 0.1111720 0.000440 0.25771 0.05771 0.05771 0.05771 0.05771 0.05771 0.05771 0.05771 0.05771 0.05771 0.05771 0.05771 0.05771 0.05771 0.05771 0.05771 0.0578 0.111629 0.0117270 0.05781 0.111629 0.011771 0.0577 0.5771 0.05771 0.5771 0.05771 0.5771 0.05771 0.5771 0.05771 0.5771 0.05771 0.5771 0.57742 0.153859 0.138424 0.030861 0.138424 0.030861 0.138424 0.030861 0.138424 0.03771 0.0577 0.5772 0.5776 0.5777 0.5771 0.5776 0.5777 0.5776 0.5777 0.5776 0.5777 0.57730 0.58777 0	Grand Total				2.91%				4.49%
Small General-Romand 0.139755 0.139756 0.139756 0.139756 0.139756 0.2475 Large memeral Romand 0.119720 0.123838 0.000350 0.4275 0.119520 0.100320 0.000320 0.30756 Large memer Producers 0.119520 0.100320 0.100320 0.30757 0.46936 0.019726 0.100320 0.30757 0.407287 0.107287 0.107287 0.107287 0.107287 0.107287 0.107287 0.107287 0.107287 0.107371 0.2007 Stall_And Demind 0.129378 0.129376 0.000390 1.475 0.139322 0.129170 0.00077 0.9977 Public St. Use 0.338229 0.508786 0.129274 0.328279 0.418970 0.000474 0.4274 0.44970 0.000777 0.9977 Public St. Use 0.338229 0.508786 0.129748 0.22871 0.000777 0.9977 1.4375 0.000777 0.108784 2.2493 0.42774 0.427647 0.427647 0.427647 0.427647 0.427647 0.	Non-Oil Yield					-	-		
Small Contensil Clemand 0.119750 0.119750 0.119750 0.119750 0.119750 0.000344 0.02034 0.02034									-0.63%
Large 0.0108324 0.0108324 0.0001557) 1.44% 0.0108324 0.0008326 0.0111622 0.011957 2.56% 0.011957 0.011957 2.56% 0.011957 0.011957 2.56% 0.011957 0.011957 2.56% 0.011957 0.011957 2.56% 0.011957 0.011957 2.56% 0.011957 0.011957 2.56% 0.011957 0.011957 2.56% 0.011957 0.011957 0.011957 2.56% 0.011957 0.011957 0.011957 2.56% 0.011957 0.011958 0.012858 0.0114572 0.002523 0.00									-2.40% -0.37%
Privale SI, Lines 0.461068 0.515586 0.515586 0.515686 0.461088 0.547165 0.119857 25.595 Sub-total 0.19723 0.105399 (0.00390 0.477 0.010277 0.105481 (0.00176) 1.4667 Government 0.15724 0.148678 0.2075 0.152742 0.15177 (0.00177) 0.0777 Sub-total 0.152742 0.148678 0.123378 0.12342 0.0002180 1.1665 Sub-total 0.123578 0.12342 0.0002180 1.1665 Sub-total 0.123578 0.12342 0.000278 0.12342 0.000779 0.577 Sub-total 0.123578 0.12342 0.000779 0.577 Sub-total 0.17357 0.12342 0.001779 0.577 Sub-total 0.17357 0.12342 0.00179 1.1585 Sub-total 0.17357 0.12342 0.00179 0.17338 (0.00074 0.4257, 0.11358 0.11206 0.00044 0.000784 0.2258 Sub-total 0.17975 0.14857 0.00079 0.17338 (0.00179 0.4758 0.2258) 0.102251 0.102251 0.000790 0.00774 0.4257 Sub-total 0.010177 0.14857 0.002350 0.2359 0.102251 0.102251 0.000269 0.4997 Sub-total 0.010177 0.11338 (0.00178 1.1735 5.000251 0.102251 0.102251 0.000269 0.4997 Small General-Damand 1.566,33 1.567,31 0.407.53 1.1366,33 0.4078 1.21260 0.448724 1.033633 0.377 Small General-Damand 1.566,33 1.567,33 0.3075 1.358,03 0.4078 1.2268 0.343880 0.2674,44724 1.41724 1.397 Small General-Damand 1.566,33 1.567,33 0.3057,1 0.156,445 0.347,146 0.00048 0.247,441 0.4778 0.337,0 0.3488 0.427,14 0.2028 0.4278 0.377,0 0.4228 0.10238 0.10238 0.10732 0.3308 0.377,144 0.11208 0.00388 0.4271 0.1268 0.10732 0.3488 0.4271 0.1278 0.0028 0.240,444 (1.55,83) -4.457, 0.337,146 0.112,050 0.348,85 4.5214 Small General-Damand 1.566,33 1.552,1672 0.355,40 0.368,00 0.147,426 0.248,44 (1.528,00 0.147,128 0.148,144,157 0.148,144,157 0.148,144,157 0.148,144,157 0.148,144,157 0.148,144,157 0.148,145 0.448,144 0.100,28 0.138,88 0.2271 0.1568,10 0.438,85 0.244,141 0.548 0.144,157 0.148,142,157 0.148,144,157 0.148,142,157 0.148,144,157 0.148,142,157 0.148,144,157 0.148,144,157 0.148,142,158 0.144,157 0.148,142,158 0.144,157 0.148,144,157 0.148,144,157 0.148,144,157 0.148,144,157 0.148,144,157 0.148,144,157 0.148,144,157 0.148,144,157 0.148,144,157 0.148,144,157 0.148,144,157 0.148,144,157 0.148,144,157 0.148,144,157 0.14	Large	0.106324	0.104766	(0.001557)	-1.46%	0.106324	0.103044	(0.003280)	-3.08%
Sub-total 0.40738 0.408389 0.40758 0.40727 0.156431 0.001791 1.469 Small,Mon Demand 0.152742 0.158742 0.153742 0.151742 0.000777 0.577 Small,Mon Demand 0.152742 0.152742 0.152742 0.152742 0.152742 0.152742 0.152742 0.152742 0.152743 0.33229 0.000777 0.577 Sub-total 0.474747 0.114827 0.00069 4.4275 0.113539 0.1112080 0.0001497 0.20077 1.389 VIN 0.001775 0.0101275 0.000360 1.4287 0.011257 0.01152 0.00									0.00% 25.95%
Small_Non Demand 0.152742 0.115174 (0.00157) 0.000757 Large 0.128365 0.128364 0.00199 1.43% 0.128378 0.121371 (0.00157) 0.57% Large 0.128378 0.128378 0.128378 0.128378 0.128378 0.128378 0.128378 0.128378 0.128378 0.128378 0.128378 0.128378 0.128378 0.128378 0.128378 0.128378 0.128378 0.128378 0.128378 0.001677 0.000444 0.001797 0.001782 0.00286 0.002878 0.002859 0.42375 0.002281 0.002841 0.001797 0.397 Dan Oll Revenues T T 0.002380 0.4375 0.422441 0.102724 0.11472348 1.037.322 0.02537 Small General-Non-Demand 1.596.323 4.0377 1.138,07 2.14977 3.23438.202 2.247.4378 (76.3331) 3.277 Small General-Non-Demand 1.596.133 9.656.137 9.656.137 9.656.141 4.575 5.556 3.3685 1.7758	Sub-total								-1.66%
Small-Demand 0.133885 0.133885 0.133885 0.133885 0.133885 0.133885 0.12472 0.0002789 0.1671 Public St. Liles 0.383220 0.500978 0.125748 3.22414 0.383229 0.121748 0.383229 0.121748 0.383229 0.121748 0.383229 0.14113 0.0002289 1.2774 Sub-total 0.019775 0.123748 0.2259 0.23954 0.041275 0.000289 1.057 Carand Total 0.019775 0.023250 2.30% 0.0102281 1.022281 1.012281 0.000099 -0.6997 Non Oil Rownes Reademial 785.232 4.000.011 1.06753 4.2774 4.02030 4.02333 3.3714.441 1.012381 3.3714.441 1.012081 3.3714.441 1.0130.3833 3.3774 Privale St.Liles 2.413.2 1.2298 2.443.271 2.457.441 1.012.083 3.3714.445 3.444.441.41 1.0130.3833 3.3774 Privale St.Liles 2.464.421 (1.323.451.451.544.441.412 1.0130.3833 3.376.		0 150740	0 140579	(0.003165)	_2 0.7%	- 0 152742	0 151271	(0 001371)	-0 00%
Publics Likes 0.383229 0.060878 0.125746 32.21% 0.383229 0.477113 0.07884 22.03% 0.14877 0.471113 0.07884 22.03% 0.14877 0.47113 0.07884 22.03% 0.14877 0.14877 0.14877 0.100262 2.06% 0.001275 0.002537 0.001262 2.26% 0.000509 1.43% 0.001275 0.002537 0.001262 2.26% 0.000509 1.43% 0.001275 0.002537 0.001262 2.26% 0.000509 1.43% 0.001275 0.002537 0.001262 2.06% 0.000509 1.45% 0.001275 0.002537 0.001262 2.06% 0.000509 1.45% 0.001275 0.002537 0.001262 2.06% 0.000509 1.45% 0.001275 0.002537 0.001262 2.06% 0.000509 1.45% 0.001275 0.002537 0.001262 2.06% 0.000509 1.45% 0.001275 0.002537 0.001262 2.06% 0.005537 0.001262 0.005537 0.001262 0.005537 0.001262 0.005537 0.001262 0.005537 0.001262 0.005537 0.001262 0.005537 0.001262 0.005537 0.001262 0.005537 0.001262 0.005537 0.001262 0.005537 0.001262 0.005537 0.001262 0.005537 0.001262 0.005537 0.001262 0.005537 0.001262 0.005537 0.00126 0.005567 0.00126 0.005567 0.00126 0.005567 0.00126 0.005567 0.00126 0.005567 0.00126 0.005567 0.00126 0.005567 0.00126 0.005567 0.00126 0.005567 0.00126 0.0012									0.57%
Sub-total 0.147647 0.44872 0.051226 0.03% 0.14872 0.011201 0.000440 0.30% USN 0.061275 0.070344 0.000074) -0.42% 0.011333 0.010257 0.002537 0.001262 2.06% Crand Total 0.010175 0.010254 0.002537 0.003531 1.4275 0.003631 4.0253 0.002537 0.003537 1.4275 0.003537 1.4275 0.003537 1.4275 0.003537 1.4275 0.003537 1.4275 0.003537 1.4275 0.003537 1.4275 0.003537 1.4275 0.003537 1.4275									-1.77%
Total-Civilian 0.113412 0.1275 0.027364 0.009098 1.43835 0.01275 0.002250 2.08% Grand Total 0.01975 0.002352 0.002350 2.30% 0.102251 0.002250 0.002250 0.002250 0.002350 0.002250 0.00									22.93% 0.30%
Grand Total 0.01975 0.14325 0.002350 2.39% 0.102351 0.102261 (0.000000) -0.09% Non-Oll Revenues Residential Small General-Mon-Demand 789.222 997.371 188.079 21.29% 94.940.02 11.477.244 1.577.222 22.05% Small General-Mon-Demand 789.222 997.371 188.079 21.29% 94.940.02 22.677.4640 176.059 22.677.4640 176.059 22.677.4640 176.059 22.677.4640 176.059 22.677.4640 176.059 22.677.4640 176.059 22.677.4640 176.059 22.677.4640 176.059 22.677.4640 176.059 22.677.4640 176.059 22.677.4640 176.057.66 36.855 42.218 37.777.440 12.205 176.378.05 36.850 12.638.052 22.677.678 36.350.03 176.428 13.158 Small-Demand 173.996 198.359 12.338.91 11.847.778 4.405.65 149.777 4.406.65 149.777 4.406.656 149.277.173 4.406.76 13.179.064 13.179.064 13.179.064 13.177	Total-Civilian	0.113412	0.112938	(0.000474)	-0.42%	0.113639	0.112060	(0.001579)	-1.39%
Residential 3.82,8283 4.003,081 420,228 11.73% 42,44,877 48,730,504 60,65,627 14.27% Small General-Demand 1,948,834 1,867,150 (19,833) 4.97% 23,338,02 22,673,489 (766,331) -3.27% Independent Power Producers 4,771 8,367 3,358 75,14% 77,149 11,25% 22,063 (22,28) 42,214 82,025 22,003 (22,28) 44,224 11,25% 22,063 (22,28) 42,214 82,025 22,003 62,228 42,214 82,025 22,003 62,228 42,214 82,345,145 5,444,143 1,003,366 36,350 1,44 5,355 1,99,68,161 40,966 4,38% 12,276,571 1,305,803 174,028 1,31,89 Sub-total 2,276,52 2,445,511 183,865 8,08% 12,776,810 23,94,67 4,31,7734 4,432,455 144,724 1,973,467 4,98% Total-Civilian 11,775,94 13,276,944 13,278,947 4,98% 22,367,411 17,75% </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>2.06% -0.09%</td>									2.06% -0.09%
Residential 3.82,8283 4.003,081 420,228 11.73% 42,44,877 48,730,504 60,65,627 14.27% Small General-Demand 1,948,834 1,867,150 (19,833) 4.97% 23,338,02 22,673,489 (766,331) -3.27% Independent Power Producers 4,771 8,367 3,358 75,14% 77,149 11,25% 22,063 (22,28) 42,214 82,025 22,003 (22,28) 44,224 11,25% 22,063 (22,28) 42,214 82,025 22,003 62,228 42,214 82,025 22,003 62,228 42,214 82,345,145 5,444,143 1,003,366 36,350 1,44 5,355 1,99,68,161 40,966 4,38% 12,276,571 1,305,803 174,028 1,31,89 Sub-total 2,276,52 2,445,511 183,865 8,08% 12,776,810 23,94,67 4,31,7734 4,432,455 144,724 1,973,467 4,98% Total-Civilian 11,775,94 13,276,944 13,278,947 4,98% 22,367,411 17,75% </td <td>Non-Oil Poyonuos</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Non-Oil Poyonuos								
Small Ceneral-Demand 1,964,834 1,867,150 (97,883) 4.97% 23,439,263 22,273,489 (766,331) -3.27% Independent Power Producers 4,771 8,357 3,585 75,14% 77,148 112,050 34,885 42,213 Sub-total 9,166,131 9,221,672 336,540 3,88% 109,656,170 115,540,151 5,91,441 5,455 Small Demand 175,396 166,399 12,394 7,12% 2,143,920 2,104,396 (39,530) -1,84% Small Demand 175,396 166,399 12,394 7,12% 2,143,920 2,104,396 (31,70,28) 13,87% Small Demand 172,526 13,046,23 151,414 4,77% 4,337,714 4,42,455 14,417,21 3,447,208 13,87% Subtoal 17,725,878 153,442,82 635,425 5,23% 20,354,555 19,203,387 (31,208) 2,47,48 USN 17,275,873 4,497,428 183,47,428 635,425 5,23% 103,455,55 10,42,445 14,		3,582,853	4,003,081	420,228	11.73%	42,644,877	48,730,504	6,085,627	14.27%
Large 2.80.258 2.864.24 (135.835) 4.85% 33.718.46 32.414.812 (1.303.883) -3.87% 77.164 112.050 34.885 45.21% 77.164 112.050 34.885 45.21% 77.164 112.050 34.885 45.21% 77.164 112.050 34.885 45.21% 77.164 112.050 34.885 45.21% 77.164 112.050 34.885 45.21% 77.164 112.050 34.885 45.21% 77.164 112.050 34.885 45.21% 77.164 112.050 34.885 45.21% 77.164 112.050 34.885 45.21% 77.164 112.050 34.885 45.21% 77.164 112.050 34.885 45.21% 77.164 112.050 34.885 45.21% 77.164 112.050 34.885 45.21% 77.164 112.050 34.885 45.21% 77.164 112.050 34.885 45.21% 77.164 112.050 34.885 45.21% 77.164 112.050 34.861 54.54% 77.164 112.050 34.861 54.54% 77.164 112.050 34.861 14.54% 78 11.26% 751 13.058.053 114.028 13.18% 759 11.141 477% 43.37.734 4.482.455 144.721 3.34% 751 51.168 336.618 354.759 16.141 477% 4.33.7743 4.482.455 144.721 3.34% 751 51.168 336.618 354.759 16.141 47.77 4.33.736.902 29.058.687 1.379.467 4.58% 12.87.538 29.20.68.687 1.379.467 4.58% 12.87.538 29.20.586 14.37.208 9.2.12% 71.137.356.092 144.726.018 7.369.928 1.368 4.30% 45.51% 44.03% 45.51% 44.03% 45.51% 44.01% 45.51% 44.01% 45.51% 44.01% 45.51% 44.01% 45.51% 45.599 144.726.018 7.369.928 13.208 -2.12% 137.756.986 144.726.018 7.369.928 13.208 -2.12% 137.756.986 144.726.018 7.369.928 13.208 -2.12% 137.756.986 144.728.018 7.369.928 13.208 -2.12% 137.756.986 144.728.018 7.369.928 13.208 -2.12% 137.756.986 144.728.018 7.369.928 13.208 -2.12% 137.756.986 149.758 14.4484.466 6.529.720 4.38% 14.01% 44.01% 44.75% 140.81% 44.01% 44.75% 140.81% 44.01% 44.75% 140.81% 44.01% 44.75% 140.81% 44.01% 44.75% 140.81% 44.01% 44.75% 140.81% 44.01% 44.75% 140.81% 44.01% 44.75% 140.81% 44.01% 45.75% 140.77% 140.81% 44.81% (55.768 11.128% 85.76 1.42% 145.82% 137.77% 147 9.776.75 (2.707.078) -2.284% 110.95% 143.228 14.11% 14									20.62%
Independent Power Producers 4,771 8,357 3,585 75,14% 77,164 112,050 34,885 442,21% Sub-total 24,123 21,289 (2,833) -11.75% 28,352 242,053 (2,62,89) -11.84% Sub-total 24,223 21,289 (2,833) -11.75% 28,352 242,04,986 (39,530) -1.84% Small-Demand 173,996 186,389 12,394 7.12% 2,143,926 2,104,396 (39,530) -1.84% Small-Demand 10,26,256 1,098,616 46,066 4,38% 12,879,578 13,053,603 174,028 13,58% Small-Demand 10,252,550 1,098,616 46,066 4,38% 12,879,578 144,11 1,00,269 13,18% Sub-total 2,275,927 1,491,512 158,926 8,96% 12,758,80 24,96,867 1,379,928 144,121 3,34% Sub-total 2,275,927 1,491,512 158,926 8,96% 12,758,80 24,966,867 1,379,928 144,121 3,34% Sub-total 11,737,9004 13,377,428 695,425 5,28% 157,73,985 164,684,946 6,329,720 4,39% % of Total Rovenues 44,00% 46,61% 45,771 1,280,246 155,999 4,97% 12,358,46 144,924 (5,57,87,10) -42,44% Small General-Non-Demand 732,651 826,627 93,776 12,40% 8,817,1382 8,553,498 (2,77,84) -2,47% Small General-Non-Demand 732,651 826,627 93,776 12,40% 8,817,11 1,27% 41,162,982 31,763,248 (2,78,84) -2,47% Small General-Non-Demand 732,651 826,627 93,776 12,40% 8,817,11 4,80% (2,57,864) (2,78,671) -42,44% Small General-Non-Demand 732,651 826,627 93,776 12,40% 8,817,11 42,828 31,763,248 (9,399,733) -22,86% Small General-Non-Demand 74,1252,13 (304,58)7 -14,20% 8,817,11 4,849 4 (35,575) -44,422 Small General-Non-Demand 1,109,434 10,527,415 (565,933 -511% 14,265,877 1,48,94 2,245,878 Small General-Non-Demand 1,109,452 146,699 (1,170) -0,79% 11,21,879 1,406,613 (413,208) -2,286% Small-Demand 1,019,962 94,676 (6,709,77 4,28,92 31,763,248 (9,399,73) -22,86% Small-Demand 1,019,962 94,676 (6,779,4 2,477,479 1,977,856 (6,23,4590 1,278,477 1,48,94 (35,575) -44,422 Small-Demand 1,019,962 94,577 (44,78,0) -3,24% Small-Demand 1,019,962 94,577 (578,574 1,225% Small-Demand 1,019,962 94,577 (24,78,0) -5,75% 12,477,479 1,976,575 (2,700,579 -22,86% Small-Demand 1,019,962 94,577 (3,77,479 1,228,577 1,48,942 44 (35,575) -4,578 Small-Demand 1,019,963 148,597 (24,78,30) -6,75% 12,477,479 1,976									-3.87%
Sub-total 9,166,131 9,21,672 35,540 3.88% 109,688,710 115,640,151 5,981,441 5,481,441 Small Demand 173,996 168,389 12,394 7,12% 2,143,396 2,104,396 (39,303) -1.84% Small-Demand 1052,550 1,098,616 40,066 4.36% 63,437,145 9,445,414 1,100,269 13,35% Large 710,462 819,746 109,284 15,38% 63,437,145 9,445,414 1,00,269 13,34% Sub-total 2,275,625 2,449,511 18,385 8,08% 27,063,80 29,085,667 1,379,447 4,898 USN 1,73,7247 1,893,142 655,299 8,99% 20,354,695 19,923,337 (41,206) -2,17% Residential 4,801,528 4,864,29 82,711 1,72% 57,161,416 51,871,474 (5,278,671) -2,47% Small Central-Demand 2,129,704 1,825,123 (30,4581) -14,30% 28,448,400 (6,010,637) -22,648 Small Centra	Independent Power Producers	4,771	8,357	3,585		77,164	112,050	34,885	45.21%
Small Demand 1,052,550 1,098,616 40,066 4.38% 12,795,76 13,053,003 174,022 13,578 Public SL Liles 333,618 354,759 16,141 4.77% 4,337,734 4,482,455 144,721 3.347 Sub-total 2,275,625 2,459,511 83,885 8.08% 27,706,330 144,725,018 7,380,928 5.36% USN 1,371,72,004 13,374,428 695,425 5.28% 157,719,665 19,923,337 (43,120,00) -2.12% % of total Revenues 44,00% 46,61% 44,00% 49,73% 49,37% 43,893,498 (21,78,44) -2,278,630 12,78,741 (5,278,671) -2,24% Small General-Non-Demand 732,851 826,627 93,776 12,80% 2,848,113,82 8,593,498 (21,78,44) -2,24% Small General-Non-Demand 7,126,74 1,857,131 14,30% 2,406,665 19,390,023 -2,284% Independent Power Producers 4,978 8,770 4,415,99 140,6613 (41,32,66) -2,26%	Sub-total								-9.12% 5.45%
Large 710.462 819.746 109.284 15.38% 8.345.145 94.45 14.1,100.289 13.18% Subtotal 2,275.625 2.459.511 183.885 8.09% 2.7706.380 29.085.667 1,379.467 4.98% 1701al-Civilian 11,441.771 1.983.246 4.771 '1 137.369.091 144.726.18 7.369.28 5.36% USN 1.737.247 1.893.246 4.771 '1 27.706.380 29.085.667 1,379.467 4.98% USN 1.737.247 1.893.246 4.771 '1 27.365.090 144.726.18 7.369.28 5.36% USN 1.737.247 1.893.246 4.771 '1 27.365.665 149.64.94.66 6, 529.720 4.39% '40.09% 49.73% 44.09% 49.73% 44.09% 49.73% 44.09% 49.73% 44.09% 49.73% 44.09% 49.73% 24.09% 51.871.474 (5.276.671) -9.24% Small General-Non-Demand 732.851 826.627 93.776 12.80% 8.811.382 8.593.498 (217.884) -2.47% Small General-Non-Demand 2,129.704 1.825.123 (304.681) -14.30% 25.406.665 19.396.028 (6.106.877) -2.26% Independent Power Producers 4.978 8.720 3.741 '75.15% 40.771 42.893 3.738.228 49 (39.97.33) -2.26% Small General-Non-Demand 1.10.94.348 10.527.415 (566.933) -5.11% 132,692.714 111.768,124 (20.924.590) -15.77% Grant Non-Demand 1.019.662 961.676 (579.73 4.071 '2.30% 8.80.771 04.99 (23.17.832.48 (9.399.733) -2.26% Small-General-Non-Demand 1.019.662 961.676 (579.73 4.071 '2.476% 40.771 '3.94% 8.0770 44.894 '3.8751 -4.42% Small-General-Non-Demand 1.019.662 951.745 (566.933) -5.11% 132,692.714 111.768,124 (20.924.590) -15.77% Grant Non-Demand 1.019.662 951.456 (537.971 -5.15% 4.0767 12.476.745 (2.700.672) -2.16.8% Small-Demand 1.019.662 951.456 (53.776) -3.245% 50.776 '4.287% 50.0770 '4.428 (53.576) -4.428% 50.00% 53.39% 50.776 '12.477.17 9.75.250 (4.54.326.37) -16.77% Small-Non-Demand 1.019.662 951.456 (53.776) -3.245% 50.77% 50.776 '4.428 (50.03.776 '12.277.167.516 (55.913.961 (12.705.78) -1.577% 50.00% 57.339.51 (12.77.14) 9.77.645 (2.700.972) -2.16.8% Small-Demand 1.019.662 951.453 (20.00.776 '5.250 (22.639) -2.846% 50.00% 50.339.51 (27.765.51 (25.513.50) -2.68% 50.577 (27.755.261 (25.530.572) (27.657) 13.5778 (23.650 (22.639) -2.646% 50.577 (27.756.576 (27.756.576) (27.7576 (27.7576 (27.7576 (27.7576 (27.7576 (27.7576 (27.7576 (27.7576 (27.7576 (27.7576 (2									-1.84%
Sub-total 2.275,625 2.499,611 183,865 8.08% 2.7706,380 2.905,667 1,379,467 4.90% USN 1.737,247 1.983,246 1.57,7% 1.983,246 1.57,7% 1.983,246 1.57,7% 1.983,246 1.57,7% 1.983,246 1.57,7% 1.983,247 1.983,246 1.57,7% 1.984,946 6,592,720 4.38% We of Total Revenues 44.00% 46.61% 44.09% 49.73% 41.09% 49.73% Oll Revenues 44.00% 46.61% 42.09% 8.811.328 8.59.449.466 6,592,720 4.38% Small General-Non-Demand 7.32.851 82.627 93.77 12.260% 8.811.328 8.593.498 (217.864) -2.47% Small General-Non-Demand 1.427.71 1.825.123 (304.581) -1.430% 80.771 8.98.92 1.923.48 9.99.733 -22.84% Independent Power Poducers 4.978 8.720 3.741 75.150,148 80.771 48.982 19.213 22.6567 Sub-total 1.1094,348									13.18%
Total-Civilian 11,441,757 11,881,182 538,426 4.71% 137,365,090 144,726,018 7,360,228 5.38% Grand Total 13,772,004 13,872,428 695,425 5.28% 157,719,865 164,649,406 6,522,720 4.38% Oil Revenues 44.00% 46.61% 44.09% 49.73% Coll Revenues 44.00% 46.61% 44.09% 49.73% Small General-Non-Demand 732,251 826,627 99,776 12,20% 8,811,382 8,563,498 (217,844) -2,24% Small General-Demand 2,129,704 1,825,723 (304,561) -1,4.20% 25,406,665 19,396,028 (6,010,637) -2,2.66% Large 3,1415,509 2,977,635 (4,39,874) -12,87% 41,162,962 13,763,248 (9,399,73) -2,2.84% Subtotal 11,094,344 10,82,7415 (566,933) -5,11% 80,771 94,8643 (3,67,07,47,42) (2,924,590) -1,677,47 Small-Non Demand 147,859 146,689 (1,170) -0,77%									3.34%
USN 1,737,247 1,893,246 155,999 8.98% 20,354,995 19,923,387 (431,208) -2:12% % of Total Revenues 44.00% 46.61% 157,719,685 164,649,406 6,529,720 4.38% Oli Revenues 44.00% 46.61% 44.09% 47.73% 57.150,145 51.871,474 (5,278,671) -9.24% Small General-Demand 732,851 826,627 93,776 12.80% 8.811,382 8.593,498 (217,884) -2.47% Small General-Demand 7,128,74 1,822,123 (304,551) -14.30% 25,406,665 19,936,028 (6)10,037 -2.28% Independent Power Producers 4,978 8,720 3,741 75,15% 80,771 9,962 18,211 22.5% Sub-total 11,994,344 10,527,415 (666,933) -5.11% 132,628,714 (147,824 (20,924,590) -4.42% Government 5 5.343 37,015 5.15% 8.447,429 7,53,3951 (90,378) -10,77% Sub-total <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>4.98% 5.36%</td></t<>									4.98% 5.36%
% of Total Revenues 44.00% 46.61% 44.09% 49.73% 57.150.145 51.871.474 (5.278.671) -9.24% Small General-Non-Demand 2,129.704 1.825.123 (304.581) -14.30% 25.406.665 19.396.028 (6.010.637) -23.66% Independent Power Producers 4.978 8.720 3.741 75.15% 40.771 46.894 (35.875) -44.42% Sub-total 11.094.348 10.527.445 (66.933) -5.11% 132.692.741 11.768.124 (20.924.969) -22.64% Small Non Demand 147.859 146.689 (1,170) -0.79% 1.821.879 1.408.613 (413.266) -22.64% Small Demand 1.019.662 951.676 (67.987) -6.67% 1.44.69171	USN	1,737,247	1,893,246	155,999	8.98%	20,354,595	19,923,387	(431,208)	-2.12%
Oil Revenues Control				695,425	5.28%			6,929,720	4.39%
Small General-Non-Demand 732,851 826,627 93,776 12,80% 8,811,382 8,503,408 (217,84) -2,47% Small General-Demand 2,129,704 1,825,123 (304,581) -14,30% 25,406,665 19,396,028 (60,106,57) -2,36% Large 3,418,509 2,129,704 1,825,123 (304,581) -12,87% 41,162,982 31,763,248 (9,399,733) -22,84% Independent Power Producers 4,978 8,720 3,741 75,15% 80,771 94,894 (35,57) -44,42% Sub-total 11,094,348 10,527,415 (566,933) -5,11% 132,692,714 111,768,124 (20,924,590) -15,77% Government 10,19,662 951,676 (67,987) -6,67% 12,477,147 9,776,475 (2,700,672) -21,84% Public SL Lites 114,688 82,050 (32,639) -24,84% 1,469,171 956,241 (512,930) -34,91% Sub-total 2,006,259 1,395,748 (64,780) -3,24% 14,206,813 34,981,34	Oil Revenues								
Small General-Demand 2,129,704 1,825,123 (304,651) -14,287% 25,406,665 19,396,028 (6,010,637) -23,66% Large 3,418,509 2,978,635 (439,874) -12,287% 41,162,992 31,763,248 (9,399,733) -22,84% Independent Power Producers 4,978 8,720 3,741 75,15% 80,770 44,894 (35,875) -44,429 Stub-total 11,094,348 10,627,415 (566,933) 5,11% 12,692,741 11,768,124 (20,924,590) -16,777 Government									
Independent Power Producers 4,978 8,720 3,741 75,15% 80,771 98,982 18,211 22,25% Private St. Lites 6,779 4,071 (2,707) -39,94% 80,770 44,894 (35,875) -44,42% Sub-total 11,094,348 10,527,415 (566,933) -5,11% 132,682,714 (11,768,124 (20,924,590) -15,77% Government 1,019,862 951,676 (67,987) -6,67% 12,477,147 9,776,475 (2,700,672) -21,64% Large 718,319 755,334 37,015 5,15% 8,437,429 7,533,951 (903,478) -10,71% Sub-total 2,000,529 19,935,748 (64,780) -3,24% 24,205,627 19,675,280 (4,530,347) -18,72% USN 3,679,966 3,432,137 (247,830) -6,73% 43,116,625 34,981,246 (8,135,379) -18,87% Grand Total 6,384,381 8,887,320 502,939 6,00% 50,97% 50,27% 50,27% 50,97% 50,27% <td></td> <td>2,129,704</td> <td>1,825,123</td> <td>(304,581)</td> <td>-14.30%</td> <td>25,406,665</td> <td>19,396,028</td> <td>(6,010,637)</td> <td>-23.66%</td>		2,129,704	1,825,123	(304,581)	-14.30%	25,406,665	19,396,028	(6,010,637)	-23.66%
Private St. Lites 6.779 4.071 (2.707) -39.94% 80.770 44.894 (35.875) -44.42% Sub-total 11,094,348 10,527,415 (566,933) -5.11% 132,692,714 111,768,124 (20,924,590) -45.77% Small-Demand 147,859 146,689 (1,170) -0.79% 1,821,879 1,408,613 (413,266) -22.66% Small-Demand 1.019,662 951,676 (67,887) -6.67% 12,477,147 9.776,375 (2,700,672) -21.64% Public St. Lites 114,688 82.050 (32,639) -28.46% 1,469,171 956,241 (512.930) -3.44% Sub-total 2,000,529 1,935,748 (64,770) -3.24% 24,205,627 19,675,280 (4,530,347) -16.27% Grand Total 13,094,877 12,463,163 (637,743) -6.73% 43,116,625 34,981,246 (8,135,379) -16.87% Grand Total 16,774,843 15,895,300 (679,553) -5.24% 20,014,965 166,424,650 (33,590,315)									-22.84%
Government Small Non Demand 147,859 146,689 (1,170) -0.79% 1,821,879 1,408,613 (413,266) -22,68% Small Demand 1,019,662 951,676 (67,987) -6.67% 1,2477,147 9,776,475 (2,700,672) -21.64% Large 718,319 755,334 37,015 5.15% 8,437,429 7,533,951 (903,478) -10.71% Sub-total 2,000,529 1,935,748 (64,780) -3.24% 24,205,627 19,675,280 (4,530,947) -16.72% Total-Civilian 13,094,877 12,463,163 (631,714) 4.82% 156,888,340 131,443,404 (25,454,936) -16.22% USN 3,679,966 3,432,17 (247,830) -6.73% 43,116,625 43,931,466 (31,53,79) -16.87% Grand Total 16,774,843 15,895,300 (879,543) -5.24% 200,014,965 166,424,650 (33,590,315) -16.79% Small General-Non-Demand 1,522,143 1,783,997 261,855 17.20% 18,301,334 20,040,7									-44.42%
Small_Non Demand 147,859 146,689 (1,170) -0.7% 1.821,879 1.408,613 (413,266) -22.68% Small-Demand 1.019,662 951,676 (67,987) -6.67% 12,477,147 9,776,475 (2,700,672) -21.64% Large 718,319 755,334 37,015 5.15% 8,437,429 7,533,951 (903,478) -10.71% Public St. Lites 114,688 82,050 (32,639) -28.46% 1,469,171 956,241 (512,930) -34.91% Sub-total 2,000,529 1,355,748 (64,780) -32.44% 242,05,627 19,675,260 (45,35,379) -18.87% USN 3,679,9966 3,432,137 (247,830) -6.73% 43,116,625 34,981,246 (8,13,5,379) -16.73% Grand Total 15,22,143 17,83,997 261,855 17.20% 18,301,384 20,040,732 1,739,348 9.50% Small General-Non-Demand 1,522,143 1,783,997 261,855 17.20% 18,301,384 20,040,732 1,739,348 9		11,094,348	10,527,415	(566,933)	-5.11%	132,692,714	111,768,124	(20,924,590)	-15.77%
Small Demand 1,019,662 951,676 (67,987) -6.67% 12,477,147 9,776,475 (2,700,672) -21.64% Large 718,319 755,334 37,015 5.15% 8,437,429 7,533,951 (903,478) -10.71% Public St Lites 114,688 82,050 (32,639) -28.46% 1,49,171 96,5241 (51,230) -3.491% Sub-total 2,000,529 1,935,748 (64,780) -3.24% 24,205,627 19,675,280 (4,530,947) -18.72% USN 3,679,9966 3,432,137 (247,830) -6.73% 43,116,625 34,981,246 (8,135,379) -18.87% Grand Total 6,774,843 15,895,300 (879,543) -5.24% 200,014,965 166,424,650 (33,590,315) -16.29% % of Total Revenues 56.00% 53.39% 55.91% 50.27% 55.91% 50.27% Grand Total 8,884,381 8,887,320 502,939 6.00% 99,795,022 100,601,977 806,956 0.81% Small General-Non-Demand </td <td>Small_Non Demand</td> <td></td> <td>146,689</td> <td>(1,170)</td> <td>-0.79%</td> <td>1,821,879</td> <td>1,408,613</td> <td>(413,266)</td> <td>-22.68%</td>	Small_Non Demand		146,689	(1,170)	-0.79%	1,821,879	1,408,613	(413,266)	-22.68%
Public St. Lites 114.688 82.050 (32.639) -28.46% 1.469.171 956.241 (512.930) -3.491% Sub-total 2,000,529 1,935,748 (64,780) -3.24% 24,205,627 19,675,280 (4,530,347) -16.22% USN 3,679,9966 3,432,137 (247,830) -6.73% 43,116,625 34,981,246 (8,135,379) -18.27% Grand Total 16,774,843 15,895,300 (879,543) -5.24% 200,014,965 166,424,650 (33,503,315) -16.22% Grand Total 50.00% 53.39% 55.91% 200,014,965 166,424,650 (33,590,315) -16.22% Small General-Non-Demand 1,522,143 1,783,997 261,855 17.20% 18,301,384 20,040,732 1,739,348 9.50% Small General-Non-Demand 1,522,143 1,783,997 261,855 17.20% 18,301,384 20,040,732 1,739,348 9.50% Small General-Non-Demand 1,522,143 1,783,997 261,855 17.20% 18,301,384 20,040,732 1,739,34	Small-Demand	1,019,662	951,676	(67,987)	-6.67%	12,477,147		(2,700,672)	-21.64%
Sub-total 2,000,529 1,935,748 (64,780) 3.24% 24,205,627 19,675,280 (4,530,347) -1.8.7% Total-Civilian 13,094,877 12,463,163 (631,714) -4.82% 156,898,340 131,443,404 (25,454,936) -16.22% USN 3,679,966 3,432,137 (247,830) -6.73% 43,116,625 34,981,246 (8,135,379) -16.87% Grand Total 16,774,843 15,895,300 (879,543) -5.24% 200,014,965 166,424,650 (33,590,315) -16.79% % of Total Revenues 56.00% 53.39% 55.91% 50.27% 50.27% Small General-Non-Demand 1,522,143 1,783,997 261,855 17.20% 18,301,384 20,040,732 1,739,348 9.50% Small General-Demand 4,094,537 3,692,273 (402,264) -9.82% 48,864,844 20,095,71 (6,71,667) -1,387% Large 6,218,767 5,643,059 (575,708) -9.26% 74,881,476 64,178,060 (10,703,417) -14.29%									
USN 3,679,966 3,432,137 (247,830) -6,73% 43,116,625 34,981,246 (8,135,379) -18,87% Grand Total % of Total Revenues 16,774,843 15,895,300 (879,543) -5.24% 200,014,965 166,424,650 (33,590,315) -16.79% Grand Total % of Total Revenues 8,384,381 8,887,320 502,939 6.00% 99,795,022 100,601,977 806,956 0.81% Small General-Non-Demand 1,522,143 1,783,997 261,855 17.20% 18,301,384 20,040,732 1,739,348 9.50% Small General-Non-Demand 4,094,537 3,682,273 (402,264) -9.82% 48,846,484 42,069,517 (6,776,967) -13.87% Independent Power Producers 9,750 17,076 7,327 75.15% 157,935 211,031 53,096 33.62% Sub-total 20,260,480 20,049,087 211,333 -1.04% 242,351,423 227,408,274 (14,943,149) -6.17% Grand Total 20,260,480 20,49,087 211,233 -1.04% 3,965,8	Sub-total	2,000,529	1,935,748	(64,780)	-3.24%	24,205,627		(4,530,347)	-18.72%
Grand Total % of Total Revenues 16,774,843 15,895,300 (879,543) -5.24% 200,014,965 166,424,650 (33,590,315) -16.79% Grand Total Residential 8,384,381 8,887,320 502,939 6.00% 99,795,022 100,601,977 806,956 0.81% Small General-Non-Demand 1,522,143 1,783,997 261,855 17.20% 18,301,384 20,040,732 1,739,348 9.50% Large 6,218,767 5,643,059 (575,708) -9.26% 74,881,476 64,178,060 (10,703,417) -14.29% Independent Power Producers 9,750 17,076 7,327 75.15% 157,935 211,031 53,096 33.62% Sub-total 20,260,480 20,049,087 (211,393) -1.04% 242,351,423 227,408,274 (14,943,149) -6.17% Government -									
Grand Total Residential 8.384.381 8.887.320 502.939 6.00% 99.795.022 100.601.977 806.956 0.81% Small General-Non-Demand 1,522,143 1,783,997 261.855 17.20% 18.301.384 20.040,732 1,739,348 9.50% Small General-Demand 4,094.537 3,692,273 (402,264) -9.82% 48.846.484 42.069,517 (6,776,967) -13.87% Large 6,218,767 5,643,059 (575,708) -9.26% 74.881,476 64.178,060 (10.703,417) -14.29% Independent Power Producers 9,750 17,076 7,327 75.15% 157.935 211,031 53.096 33.62% Fiviate St. Lites 30.901 25.361 (57.5708) -9.26% 74.881,476 64.178,060 (10.703,417) -14.29% Government 20.260,480 20.049,087 (211,333) -1.04% 242,351,423 227,408,274 (14,943,149) -6.17% Government 5 33.079 11.224 3.49% 3.965.03.513,0.08	Grand Total	16,774,843	15,895,300			200,014,965	166,424,650		-16.79%
Residential 8.384.381 8.887.320 502.939 6.00% 99.795.022 100.601.977 806.956 0.81% Small General-DornDemand 1,522.143 1,783.997 261.855 17.20% 18.301.384 20.040,732 1,739.348 9.50% Small General-Demand 4,094.537 3,692.273 (402.264) -9.82% 48.846.484 42.069.517 (6,776.967) -14.29% Independent Power Producers 9,750 17.076 7,327 75.15% 157.935 211.031 53.096 33.62% Private St. Lites 30.901 25.361 (55.541) -17.93% 369.122 306.957 (62.164) -16.84% Sub-total 20.260.480 20.049.087 (211.393) -1.04% 242.351.423 227.408.274 (14.943.149) -6.17% Government -	% of Total Revenues	56.00%	53.39%			55.91%	50.27%		
Small General-Non-Demand 1,522,143 1,783,997 261,855 17,20% 18,301,384 20,040,732 1,739,348 9,50% Small General-Demand 4,094,537 3,692,273 (402,264) -9,82% 48,846,484 42,069,517 (6,776,967) -13,87% Large 6,218,767 5,643,059 (57,708) -9,22% 74,811,476 64,178,060 (10,703,417) -14,22% Independent Power Producers 9,750 17,076 7,327 75,15% 157,935 211,031 53,096 33,62% Sub-total 20,266,480 20,049,087 (211,393) -1.04% 242,351,423 227,408,274 (14,943,149) -6.17% Government									
Small General-Demand 4,094,537 3,692,273 (402,264) -9.82% 48,846,844 42,069,517 (6,776,967) -13.87% Large 6,218,767 5,643,059 (575,708) -9.26% 74,881,476 64,178,060 (10,703,417) -14.29% Independent Power Producers 9,750 17,076 7,327 75,15% 157,935 211,031 53.096 33,62% Private St. Lites 30,901 25,361 (5,541) -17.93% 369,122 306,957 (62,164) -16.84% Government -									0.81% 9.50%
Large 6,218,767 5,643,059 (575,708) -9.26% 74,881,476 64,178,060 (10,703,417) -14.29% Independent Power Producers 9,750 17,076 7,327 75,15% 157,935 211,031 53,096 33,62% Private St. Lites 30,901 25,361 (5,541) -17.93% 369,122 306,957 (62,164) -16.84% Sub-total 20,260,480 20,049,087 (211,333) -1.04% 242,351,423 227,408,274 (14,943,149) -6.17% Government -				(402,264)	-9.82%				-13.87%
Private St. Lites 30,901 25,361 (5,541) -17.93% 369,122 306,957 (62,164) -16.84% Sub-total 20,260,480 20,049,087 (211,393) -1.04% 242,381,423 227,408,274 (14,943,149) -6.17% Government -		6,218,767	5,643,059	(575,708)	-9.26%	74,881,476	64,178,060	(10,703,417)	-14.29%
Sub-total 20,260,480 20,049,087 (211,393) -1.04% 242,351,423 227,408,274 (14,943,149) -6.17% Government - <									-16.84%
Small_Non Demand 321,855 333,079 11,224 3.49% 3.965,805 3.513,008 (452,796) -11.42% Small-Demand 2,072,212 2,050,292 (21,920) -1.06% 25,356,723 22,830,078 (2,526,644) -9.96% Large 1,428,781 1,575,050 146,299 10.24% 16,782,575 16,979,355 196,791 1.17% Public St. Lites 453,306 436,808 (16,498) -3.64% 5,806,905 5,438,696 (368,210) -6.34% Sub-total 4,276,154 4,395,259 119,105 2,786 51,912,007 48,761,148 (3,150,860) -6.07% Total-Civilian 24,536,634 24,444,346 (92,288) -0.38% 294,263,430 276,169,422 (18,094,009) -6.15% USN 5,417,213 5,325,383 (91,831) -1.70% 63,471,220 54,904,634 (8,56,586) -13,50%	Sub-total								-6.17%
Small-Demand 2.072.212 2.050.292 (21.920) -1.06% 25.356.723 22.830,078 (2,526,644) -9.96% Large 1,428,781 1,575,080 146,299 10.24% 16,782,575 16,979,365 196,791 1.17% Public SL Lites 453,306 436,808 (16,498) -3.64% 5.806,905 5,438,606 (368,210) -6.34% Sub-total 4.276,154 4.395,259 119,105 2.79% 51,912,007 48,761,148 (3,150,860) -6.07% Total-Civilian 24,536,634 24,444,346 (92,288) -0.38% 294,263,430 276,169,422 (18,094,009) -6.15% USN 5,417,213 5,325,583 (91,831) -1.70% 63,471,220 54,904,634 (8,66,686) -13.50%		321 855	333 079	11 224	3 49%	3 965 805	3,513,008	(452 796)	-11 42%
Large 1,428,781 1,575,080 146,299 10.24% 16,782,575 16,979,365 196,791 1.17% Public St. Lites 453,306 436,808 (16,498) -3.64% 5.806,905 5.438,696 (368,210) -6.34% Sub-total 4,276,154 4,395,259 119,105 2.79% 51,912,007 48,761,148 (3,150,660) -6.07% Total-Civilian 24,536,634 24,444,346 (92,288) -0.38% 294,263,430 276,169,422 (18,094,009) -6.15% USN 5,417,213 5,325,383 (91,831) -1.70% 63,471,220 54,904,634 (8,566,586) -13.50%									-9.96%
Sub-total 4,276,154 4,395,259 119,105 2.79% 51,912,007 48,761,148 (3,150,860) -6.07% Total-Civilian 24,536,634 24,444,346 (92,288) -0.38% 294,263,430 276,169,422 (18,094,009) -6.15% USN 5,417,213 5,325,583 (91,831) -1.70% 63,471,220 54,904,634 (8,666,586) -13.50%		1,428,781	1,575,080	146,299	10.24%	16,782,575	16,979,365	196,791	1.17%
Total-Civilian 24,536,634 24,444,346 (92,288) -0.38% 294,263,430 276,169,422 (18,094,009) -6.15% USN 5,417,213 5,325,383 (91,831) -1.70% 63,471,220 54,904,634 (8,566,586) -13.50%									-6.34% -6.07%
	Total-Civilian	24,536,634	24,444,346	(92,288)	-0.38%	294,263,430	276,169,422	(18,094,009)	-6.15%
									-13.50% -7.45%
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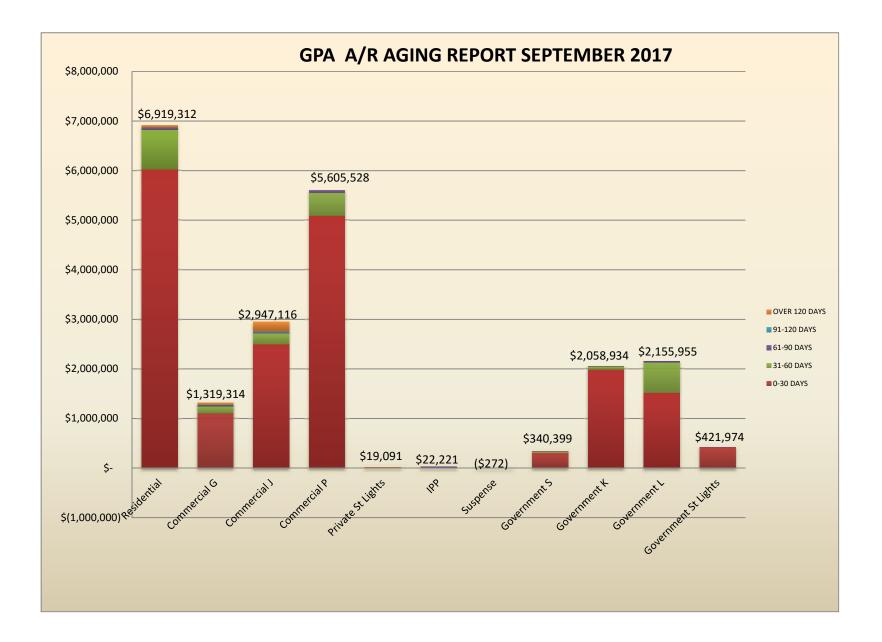
	YTD REV	ENUES - CURREN	IT YEAR VS PRIC	DR YEAR	MTD REVE	NUES - CURREN	IT YEAR VS PRI	DR YEAR
	ACTUALS - 12 MONTHS ENDED SEPTEMBER 30				ACTUA	LS - MONTH EN	DED SEPTEMBE	R 30
кwн	2017	2016	VARIANCE	% VARIANCE	2017	2016	VARIANCE	% VARIANCE
Residential	506,335,601	487,022,560	19,313,041	3.97%	41,491,015	41,186,530	304,485	0.74%
Small General-Non-Demand Small General-Demand	83,899,700 190,050,925	80,284,067 190,587,125	3,615,633 (536,200)	4.50% -0.28%	7,022,092 15,509,408	6,885,525 14,741,107	136,567 768,300	1.98% 5.21%
Large	314,573,231	308,834,877	5,738,353	1.86%	25,432,034	25,176,509	255,525	1.01%
Independent Power Producers Private St. Lites	1,003,769 450,462	767,880 629,744	235,889 (179,282)	30.72% -28.47%	76,532 34,586	62,052 56,235	14,480 (21,650)	23.34% -38.50%
Sub-total	1,096,313,688	1,068,126,254	28,187,434	2.64%	89,565,666	88,107,957	1,457,709	1.65%
Government	12 002 246	12 420 264	472 004	2 520/	1 246 106	1 164 666	01 440	6.00%
Small_Non Demand Small-Demand	13,902,246 96,878,602	13,428,264 93,302,996	473,981 3,575,606	3.53% 3.83%	1,246,106 8,084,368	1,164,666 7,858,530	81,440 225,838	6.99% 2.87%
Large	74,897,969	70,055,104	4,842,865	6.91%	6,493,449	5,804,148	689,301	11.88%
Public St. Lites Sub-total	9,514,606 195,193,422	11,344,681 188,131,044	(1,830,074) 7,062,378	-16.13% 3.75%	697,002 16,520,925	995,613 15,822,957	(298,611) 697,968	-29.99% 4.41%
Total-Civilian	1,291,507,110	1,256,257,298	35,249,812	2.81%	106,086,591	103,930,914	2,155,677	2.07%
USN Grand Total	318,585,902 1,610,093,012	318,082,773 1,574,340,071	503,129 35,752,941	0.16% 2.27%	26,906,320 132,992,911	26,000,826 129,931,741	905,494 3,061,170	3.48% 2.36%
	.,,,,	.,,	00,102,011	//		,,.	0,001,110	1.00,0
Non-Oil Yield Residential	0.096242	0.096203	0.000038	0.04%	0.096481	0.095315	0.001166	1.22%
Small General-Non-Demand	0.136440	0.136364	0.000075	0.06%	0.136337	0.134587	0.001750	1.30%
Small General-Demand Large	0.119302 0.103044	0.119423 0.103705	-0.000121 -0.000661	-0.10% -0.64%	0.120388 0.104766	0.122062 0.104526	-0.001674 0.000240	-1.37% 0.23%
Independent Power Producers	0.000000	0.117983	-0.117983	-100.00%	0.104766	0.135051	-0.025860	-19.15%
Private St. Lites	0.581765	0.454278	0.127487	28.06%	0.615558	0.428715	0.186843	43.58%
Sub-total Government	0.105481	0.105761	-0.000280	-0.26%	0.106309	0.105732	0.000578	0.55%
Small_Non Demand	0.151371	0.152255	-0.000884	-0.58%	0.149578	0.151669	-0.002092	-1.38%
Small-Demand Large	0.134742 0.126110	0.135082 0.128102	-0.000340 -0.001992	-0.25% -1.55%	0.135894 0.126242	0.135670 0.129803	0.000224	0.16% -2.74%
Public St. Lites	0.471113	0.380746	0.090367	23.73%	0.508978	0.347125	0.161853	46.63%
Sub-total	0.149010	0.148523	0.000488	0.33%	0.148872	0.148001	0.000872	0.59%
Total-Civilian USN	0.112060 0.062537	0.112165 0.061774	-0.000105 0.000763	-0.09% 1.24%	0.112938 0.070364	0.112167 0.065818	0.000771 0.004547	0.69% 6.91%
Grand Total	0.102261	0.101984	0.000277	0.27%	0.104325	0.102892	0.001433	1.39%
Non-Oil Revenues								
Residential Small General-Non-Demand	48,730,504 11,447,234	46,853,221 10,947,876	1,877,283 499,358	4.01% 4.56%	4,003,081 957,371	3,925,681 926,703	77,400 30,668	1.97% 3.31%
Small General-Demand	22,673,489	22,760,513	(87,024)	-0.38%	1,867,150	1,799,327	67,823	3.77%
Large Independent Power Producers	32,414,812 112,050	32,027,609 90,597	387,203	1.21% 23.68%	2,664,424	2,631,610 8,380	32,814	1.25% -0.28%
Private St. Lites	262,063	286,079	21,453 (24,016)	-8.39%	8,357 21,289	24,109	(24) (2,819)	-0.28%
Sub-total	115,640,151	112,965,895	2,674,256	2.37%	9,521,672	9,315,809	205,862	2.21%
Government Small Non Demand	2,104,396	2,044,514	59,882	2.93%	186,389	176,644	9,745	5.52%
Small-Demand	13,053,603	12,603,536	450,067	3.57%	1,098,616	1,066,168	32,448	3.04%
Large Public St. Lites	9,445,414 4,482,455	8,974,202 4,319,445	471,212 163,010	5.25% 3.77%	819,746 354,759	753,393 345,602	66,353 9,156	8.81% 2.65%
Sub-total	29,085,867	27,941,696	1,144,171	4.09%	2,459,511	2,341,807	117,703	5.03%
Total-Civilian USN	144,726,018	140,907,591 19,649,233	3,818,427	2.71%	11,981,182	11,657,617	323,566	2.78%
Grand Total	19,923,387 164,649,406	160,556,823	274,155 4,092,582	1.40% 2.55%	1,893,246 13,874,428	1,711,315 13,368,932	181,930 505,496	10.63% 3.78%
% of Total Revenues Oil Revenues								
Residential	51,871,474	45,204,139	6,667,335	14.75%	4,884,239	3,567,289	1,316,950	36.92%
Small General-Non-Demand	8,593,498	7,443,078	1,150,420	15.46%	826,627	596,376	230,251	38.61%
Small General-Demand Large	19,396,028 31,763,248	17,741,444 28,759,676	1,654,583 3,003,573	9.33% 10.44%	1,825,123 2,978,635	1,276,271 2,170,679	548,851 807,957	43.00% 37.22%
Independent Power Producers	98,982	69,870	29,112	41.67%	8,720	5,192	3,528	67.95%
Private St. Lites Sub-total	44,894 111,768,124	59,055 99,277,261	(14,160) 12,490,863	-23.98% 12.58%	4,071 10,527,415	4,871 7,620,677	(799) 2,906,738	-16.41% 38.14%
Government								
Small_Non Demand	1,408,613	1,254,946	153,667	12.24%	146,689	100,875	45,814	45.42%
Small-Demand Large	9,776,475 7,533,951	8,720,615 6,479,115	1,055,860 1,054,836	12.11% 16.28%	951,676 755,334	680,651 497,431	271,025 257,903	39.82% 51.85%
Public St. Lites	956,241	1,063,810	(107,569)	-10.11%	82,050	86,233	(4,183)	-4.85%
Sub-total Total-Civilian	19,675,280 131,443,404	17,518,486 116,795,747	2,156,794 14,647,657	12.31% 12.54%	1,935,748 12,463,163	1,365,190 8,985,867	570,558 3,477,296	41.79% 38.70%
USN	34,981,246	29,544,181	5,437,065	18.40%	3,432,137	2,545,091	887,046	34.85%
Grand Total % of Total Revenues	166,424,650	146,339,928	20,084,722	13.72%	15,895,300	11,530,958	4,364,342	37.85%
Grand Total		00 000				7 100		
Residential Small General-Non-Demand	100,601,977 20,040,732	92,057,360 18,390,954	8,544,618 1,649,778	9.28% 8.97%	8,887,320 1,783,997	7,492,970 1,523,079	1,394,351 260,919	18.61% 17.13%
Small General-Demand	42,069,517	40,501,958	1,567,559	3.87%	3,692,273	3,075,598	616,674	20.05%
Large Independent Power Producers	64,178,060 211,031	60,787,284	3,390,776	5.58%	5,643,059	4,802,289	840,771	17.51%
Private St. Lites	211,031 306,957	160,467 345,133	50,565 (38,176)	31.51% -11.06%	17,076 25,361	13,572 28,980	3,504 (3,619)	25.82% -12.49%
Sub-total	227,408,274	212,243,155	15,165,119	7.15%	20,049,087	16,936,487	3,112,600	18.38%
Government Small_Non Demand	3,513,008	3,299,460	213,549	6.47%	333,079	277,519	55,559	20.02%
Small-Demand	22,830,078	21,324,151	1,505,927	7.06%	2,050,292	1,746,819	303,473	17.37%
Large	16,979,365	15,453,317	1,526,048	9.88%	1,575,080	1,250,824	324,256	25.92%
Public St. Lites Sub-total	5,438,696 48,761,148	5,383,255 45,460,182	55,441 3,300,965	1.03% 7.26%	436,808 4,395,259	431,835 3,706,997	4,973 688,262	1.15% 18.57%
Total-Civilian	276,169,422	257,703,338	18,466,084	7.17%	24,444,346	20,643,484	3,800,862	18.41%
USN Grand Total	54,904,634	49,193,414	5,711,220	11.61%	5,325,383	4,256,406	1,068,976	25.11%
Granu Total	331,074,056	306,896,751	24,177,304	7.88%	29,769,728	24,899,890	4,869,838	19.56%











GUAM POWER AUTHORITY GOVERNMENT ACCOUNTS RECEIVABLE BILLING UP TO 10/31/2017 and Payment Applied as of 11/08/2017

NEW				ARREARS		
ACCT		DEPARTMENT		BALANCE 9/30/2017		
NUMBER				9/30/2017		
124378	0227100000	Line Agencies Dept. of Corrections	\$	60 929 19		
		1	\$ \$	69,838.18		
124401		Dept. of Parks & Rec.	۵ \$	19,095.59		
124415		Guam Fire Department	\$ \$	17,147.35		
108818		DOA-Supply Management Dept. of Administration	\$ \$	1,385.92		
108799		1	\$ \$	3,877.28		
124392		Nieves Flores Library	\$	9,366.93		
140297		General Services Agency		244.69		
124380		DOA-Data Processing	\$	6,514.66		
124393		Dept. of PH&SS	\$	67,055.44		
124381		Dept. of Education	\$	1,041,563.71		
124394		Guam Police Department	\$	33,197.21		
128478		Dept of Youth Affairs (Federal)	\$	851.12		
124407		Dept. of Youth Affair* (Local)	\$	12,949.24		
124445		Guam Environmental Protect	\$	5,865.93		
124408		Mental Health/Subst.	\$	35,969.53		
148823		Veteran Affairs	\$	749.94		
124412		Civil Defense (Military Affairs)	\$	23,700.56		
158935		Pacific Energy Resource Center	\$	500.53		
124374		Dept. of Agriculture	\$	8,652.71		
124399		DPW-FAC Adm Account	\$	25,451.27		
		Guam Visitors Bureau	\$	3,974.72		
166560		Yona Senior Citizen Center	\$	743.52		
124414		Chamorro Village	\$	3,767.92		
292266		Mayors Council	\$	2,399.43		
309494		Office of the Governor	\$	45,719.45		
	8555858369	Dept of Chamorro Affairs (Guam Museum)	\$	17,043.40		
		Sub Total	\$	1,457,626.23		
		MAYORS				
124427	0637100000	Santa Rita Mayor	\$	3,153.89		
124437	0737100000	Ordot/Chalan Pago Mayor	\$	984.42		
124417		Agana Mun Planning Council	\$	1,200.03		
124428	1637100000	· ·	\$	932.62		
124438		Mongmong/Toto/Maite Mayor	\$	1,226.84		
124429	2637100000		\$	892.26		
124439		Sinajana Mayor	\$	4,185.22		
124430		Dededo Mayor	\$	4,955.54		

124433	6637100000 Merizo Mayor	\$ 1,581.71
124453	6737100000 Barrigada Mayors Office	\$ 1,996.56
124424	7537100000 Agat Mayor	\$ 2,623.07
124434	7637100000 Inarajan Mayor	\$ 1,527.33
124425	8537100000 Tamuning Mayor	\$ 5,408.43
124435	8637100000 Talofofo Mayor	\$ 2,106.84
124426	9537100000 Mangilao Mayor	\$ 4,557.25
124436	9637100000 Yona Mayor	\$ 793.97
	Sub Total	\$ 46,526.41
10,400.5	DPW ACCOUNTS	
124395	4337100000 DPW-Village St. Lights	\$ 328,951.26
124396	5337100000 DPW- Primary St. Lights	\$ 77,893.74
124397	6337100000 DPW-Sec/Coll St. Lights	\$ 23,962.79
124398	7337100000 DPW-Signal Lights	\$ 9,899.57 \$ 440,707.36
	Sub Total	\$ 440,707.36
	(B) AUTONOMOUS/PUBL	IC CORP
124402	1437100000 Retirement Fund	\$ 5,591.39
208988	1915500000 Guam Housing Corp Rental Division	\$ 1,906.00
124403	2437100000 University of Guam	\$ 165,420.33
124383	4237100000 Guam Airport Authority	\$ 480,238.36
	5357510000 University of Guam (NET METERED) \$ 72,958.06
124387	6237100000 G H U R A	\$ 9,318.30
124409	6437100000 Guam Community College	\$ 44,251.19
124388	7237100000 Guam Memorial Hospital	\$ 160,977.37
124377	9137100000 Port Authority of Guam	\$ 84,855.04
	9157510000 Guam Community College (NET ME	
288441	9173210000 Guam Solid Waste Authority	\$ 4,970.64
124400	9337100000 Guam Waterworks Authority	\$ 1,084,620.75
	Sub Total	\$ 2,149,900.43
	(C) OTHERS	
124391	0337100000 Guam Legislature	\$ 164.91
	9503154359 Guam Legislature (NET METER)	\$ 5,431.76
124379	1237100000 Superior Court of Guam	\$ 67,900.53
124418	2537100000 Agana Post Office	\$ 4,766.23
130431	257020000 Customs & Quarantine Agency	\$ 823.54
124419	3537100000 U.S. Post Office	\$ 32,004.56
124422	5537100000 Dept. of Military Affairs	\$ 80,580.17
	3209463043 Dept. of Military Affairs (NET METE	
124446	5737100000 KGTF	\$ 5,956.15
102783	7281000000 Tamuning Post Office	\$ 5,109.62

Sub Total (w/out Promissory Note)	\$ 4,300,522.85



Current (10/17 Billing due 11/30/17) 30 days Arrears (09/17 due 10/15/17) 60 days and over Arrears (08/17 billing due 09/15/17)

FOR	RENT BILL 10/31/2017 TE 11/08/2017	Al	BILLING DJUSTMENT 11/8/2017	PAYMENTS AS OF 11/8/2017	BILLING BALANCE 11/8/2017	
\$	75,206.73	\$	-	\$ (69,838.18)	\$ 75,206.73	
\$	19,584.36	\$	-	\$ (19,095.59)	\$ 19,584.36	
\$	18,401.57	\$	-	\$ (17,147.35)	\$ 18,401.57	
\$	1,405.51	\$	-	\$ (1,385.92)	\$ 1,405.51	
\$	3,872.06	\$	-	\$ (3,877.28)	\$ 3,872.06	
\$	10,275.88	\$	-	\$ (9,366.93)	\$ 10,275.88	
\$	257.28	\$	-	\$ (244.69)	\$ 257.28	
\$	8,120.43	\$	-	\$ (6,514.66)	\$ 8,120.43	
\$	69,556.87	\$	-	\$ (67,055.44)	\$ 69,556.87	
\$	1,081,526.93	\$	0.25	\$ (1,041,530.19)	\$ 1,081,560.70	
\$	35,509.02	\$	-	\$ (33,197.21)	\$ 35,509.02	
\$	886.90	\$	-	\$ (851.12)	\$ 886.90	
\$	13,849.84	\$	-	\$ (12,949.24)	\$ 13,849.84	
\$	5,802.98	\$	-	\$ (5,865.93)	\$ 5,802.98	
\$	42,365.55	\$	-	\$ (35,969.53)	\$ 42,365.55	
\$	925.20	\$	-	\$ (749.94)	\$ 925.20	
\$	11,231.40	\$	76.84	\$ (13,454.81)	\$ 21,553.99	1
\$	524.27	\$	-	\$ (500.53)	\$ 524.27	
\$	9,566.91	\$	-	\$ (8,652.71)	\$ 9,566.91	
\$	26,834.92	\$	-	\$ (25,451.27)	\$ 26,834.92	
\$	4,135.61	\$	-	\$ (3,974.72)	\$ 4,135.61	
\$	778.41	\$	-	\$ (743.52)	\$ 778.41	
\$	4,112.79	\$	28.25	\$ (3,767.92)	\$ 4,141.04	
\$	2,387.47	\$	354.86	\$ (2,399.43)	\$ 2,742.33	
\$	22,712.42	\$	-	\$ (45,719.45)	\$ 22,712.42	
\$	18,526.91	\$	-	\$ (17,043.40)	\$ 18,526.91	
\$	1,488,358.22	\$	460.20	\$ (1,447,346.96)	\$ 1,499,097.69	
\$	3,202.06	\$	-	\$ (3,153.89)	\$ 3,202.06	
\$	872.46	\$	(300.00)	\$ (684.42)	\$ 872.46	
\$	1,200.33	\$	-	\$ (1,200.03)	\$ 1,200.33	
\$	1,353.22	\$	-	\$ (932.62)	\$ 1,353.22	
\$	989.30	\$	4.94	\$ (868.38)	\$ 1,352.70	
\$	987.77	\$	-	\$ (892.26)	\$ 987.77	
\$	4,384.25	\$	-	\$ (4,185.22)	\$ 4,384.25	
\$	6,706.53	\$	-	\$ (4,955.54)	\$ 6,706.53	

\$ 3,670.42	\$ -	\$ (3,582.77)	\$	3,670.42	
\$ 1,160.07	\$ -	\$ (641.18)	\$	1,160.07	
\$ 4,379.00	\$ -	\$ (4,176.48)	\$	4,379.00	
\$ 1,439.20	\$ -	\$ (1,581.71)	\$	1,439.20	
\$ 2,102.80	\$ -	\$ (1,996.56)	\$	2,102.80	
\$ 2,135.41	\$ 448.35	\$ (2,623.07)	\$	2,583.76	
\$ 1,502.25	\$ -	\$ (1,527.33)	\$	1,502.25	
\$ 5,762.07	\$ -	\$ (5,408.43)	\$	5,762.07	
\$ 2,143.61	\$ -	\$ (2,106.84)	\$	2,143.61	
\$ 4,364.24	\$ -	\$ (4,557.25)	\$	4,364.24	
\$ 886.73	\$ -	\$ (793.97)	\$	886.73	
\$ 49,241.72	\$ 153.29	\$ (45,867.95)	\$	50,053.47	
,		. , , ,		,	
\$ 330,978.68	\$ 	\$ (328,951.26)	\$	330,978.68	
\$ 82,912.21	\$ _	\$ (77,893.74)		82,912.21	
\$ 25,366.46	\$ _	\$ (23,962.79)		25,366.46	
\$ 10,997.29	\$ -	\$ (9,899.57)		10,997.29	
\$ 450,254.64	\$ -	\$ (440,707.36)	-	450,254.64	
\$ 5,621.48	\$ _	\$ (5,591.39)	\$	5,621.48	
\$ 1,607.25	\$ 37.93	\$ (1,382.66)		2,168.52	
\$ 179,299.15	\$ _	\$ (165,420.33)	\$	179,299.15	
\$ 482,204.95	\$ (3,827.97)	\$ (476,410.39)		482,204.95	
\$ 78,483.76	\$ 129.76	\$ (72,958.06)	\$	78,613.52	
\$ 24,192.98	\$ 218.54	\$ (21,475.86)	\$	12,253.96	
\$ 48,161.81	\$ -	\$ (44,251.19)	\$	48,161.81	
\$ 171,330.68	\$ 1,207.33	\$ (160,977.37)	\$	172,538.01	
\$ 90,735.35	\$ -	\$ (84,855.04)		90,735.35	
\$ 37,672.96	\$ -	\$ (34,793.00)	\$	37,672.96	
\$ 5,609.06	\$ -	\$ (20,116.20)	\$	(9,536.50)	
\$ 1,192,165.86	\$ 285.57	\$ (1,084,620.75)		1,192,451.43	
\$ 2,317,085.29	\$ (1,948.84)	\$ (2,172,852.24)	\$	2,292,184.64	
\$ 165.84	\$ 	\$ (164.91)	\$	165.84	
\$ 6,367.58	\$ -	\$ (5,431.76)	\$	6,367.58	
\$ 69,610.93	\$ -	\$ (67,900.53)	\$	69,610.93	
\$ 5,476.19	\$ -	\$ (4,766.23)	\$	5,476.19	
\$ 902.52	\$ -	\$ (823.54)	\$	902.52	
\$ 39,465.89	\$ -	\$ (32,004.56)	\$	39,465.89	
\$ 88,468.50	\$ -	\$ (80,580.17)	\$	88,468.50	
\$ 3,050.24	\$ -	\$ (3,024.95)	\$	3,050.24	
\$ 6,493.88	\$ -	\$ (5,956.15)		6,493.88	
\$ 5,449.04	\$ -	\$ (5,109.62)		5,449.04	
\$ 225,450.61	\$ -	\$ (205,762.42)	\$	225,450.61	

	\$	4,530,390.48	\$	(1,335.35)	\$	(4,312,536.93)	\$	4,517,041.05	
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GPA Communications/PIO KPI Status

Week of 20 November 2017

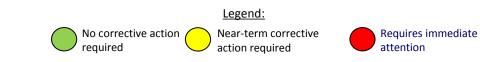
11/20/2017

Ratepayer Newsletter



Overall Status G	Risks & Issues	G	Schedule	G	Scope	G	Financial	G	
Status		·	A	Accomplishments					
 Compiling December newsletter; Featuring Guampedia recipe for December Ratepayer Newsletter; Inclusion of Public Health Immunization Advisory No village festival to promote in upcoming newsletter; 				. Complet	ted November Ratepayer I	Newsl	etter;		

Risks and Issues	Resolution	Financial
1. None to report;		Budgeted for FY17

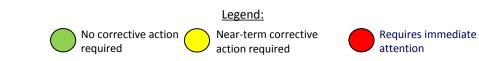


2017 Annual Report



Overall Status G Risks	& Issues G Sched	lule G	Scope	G	Financial	G
Status		Accom	plishments			
 Requisition in process for FY17 Ann Surveying Divisions for FY17 Accom 	•	1. Comple	eted FY2016 Annual Report.			

Risks and Issues	Resolution	Financial			
1. None to Report		None to report	Within Budget		

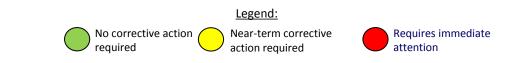


Special Projects – Social Media



Overall Status G	Risks & Issues	G	Schedule	G	Scope	G	Financial	G
Status				Accom	nplishments			
 Coordinating with various social media; Reached "Likes" number 	o share on	1. Fiscal	Year Goal of 2,500 "	"Likes" ongoi	ing;			

Risks and Issues	Resolution	Financial				
1. Timely Updates on Forced Outages;	 Close monitoring of outages and trouble desk for updates; 	Within budget				



Energy Sense Marketing



Overall Status G	Risks & Issues	G Sc	hedule	G	Scope	G	Financial	G
Status				Accomp	plishments			
 Adztech Advertising contin Objectives; Renewing contract with KU 	-	-	als &	1. On track	< to with DSM Phas	e II Marketin	g Goals & Objectives	

		Financial
Risks and Issues	Resolution	Budget Support for SPORD for Phase II
1. SPORD support pending additional funding;	PIO supporting DSM marketing in pending additional SPORD funding	

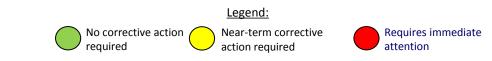


Prepaid & SMS (text) Project



Overall Status G Risks & Issues G Schedul	e G Scope G Financial G
Status	Accomplishments
1. None to report	 Completed coordination with local carriers (GTA, Docomo & IT&E for SMS Texting test);

Risks and Issues	Resolution	Financial
1. Pending review and acceptance from PSCC		None to report
for testing and eventual rollout;		



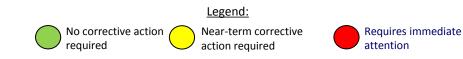
Live Streaming of CCU Meetings & Work Sessions



7

Overall Status G Risks & Is	sues <mark>G</mark> Schedule	G	Scope	G	Financial	G
Status		Accomp	lishments			
1. Forwarded specifications to IT for OR processing;		1. None to report				
Risks and Issues	Resolution		Financial			

Risks and Issues	Resolution	Financial
1. None to report at this time		Funding with IT Division & GWA for audio & video
		equipment & training



11/20/2017

50th Anniversary Activities



Overall Status G Risks & Issues G Schedule	G Scope G Financial G
Status	Accomplishments
 Compiling planning activities for 50th Anniversary Celebration for October 2018; upon completion, will present to GM for final disposition. 	1. None to report
	Financial
	None to report

Risks and Issues	Resolution
1. None to report at this time	



Miscellaneous Activities



Overall Status G Risks & Issues G Schedule	G Scope G Financial G
Status	Accomplishments
 Continuous updates and verification of web pages with current information; currently "refreshing" pages to meet different formats e.g. mobile devices etc. in preparation for total web redesign in FY17 Monitoring of CS Business Centers along with recommendations for 	 Updates on web & social media page ongoing; PIO received Award of Merit for Web/Social Media Category for Ratepayer Newsletter Social Media Project.
 improvement e.g. reduce wait times; GPA will participate in Xmas Festival @ Government House on 15 Dec 17 from 1800hrs to 2000hrs Preparing for GPA Service Awards in CY2018 	

Risks and Issues	Resolution	Financial
1. None to report at this time;		None to report







POWERING OUR ISLAND COMMUNITY

SCHEDULE OF EVENTS | October 1-7, 2017

FRIDAY September 22, 2017

10:30a.m.

2017 GPA/PUBLIC POWER WEEK PROCLAMATION SIGNING CEREMONY; GPA Fadian CCU Boardroom

11:00a.m.

2017 GPA EMPLOYEE RETIREES' RECOGNITION CEREMONY; GPA Fadian CCU Boardroom

> MONDAY October 2, 2017 through FRIDAY October 6, 2017

Collections all week; see your work division coordinators

'POWER OF \$1' GPA EMPLOYEE DONATIONS DRIVE FOR HURRICANE RELIEF EFFORTS

MONDAY October 2, 2017

9:00a.m. GPA/PPW CUSTOMER APPRECIATION TABLE; Fadian, Julale, Upper Tumon

TUESDAY October 3, 2017

10:00a.m. GPA/PPW EDUCATIONAL OUTREACH – TAMUNING ELEMENTARY SCHOOL CLASSROOMS

WEDNESDAY October 4, 2017

9:00a.m.-11:00a.m. 'LIFE'S LITTLE NECESSITIES' DONATION AND MUSIC SERENADE AT ST. DOMINIC'S SENIOR CARE FACILITY; Barrigada Heights

2:00p.m.-4:00p.m. GMHA PEDIATRIC WARD VISIT; Guam Memorial Hospital

6:00p.m.-10:00p.m. GPA/PPW ROCK & BOWL FUN NIGHT; Central Lanes Bowling Alley-Tamuning

THURSDAY October 5, 2017

8:00a.m. -3:00p.m. GPA/PPW AND GPA EA RODEO; GPA T&D Compound

FRIDAY October 6, 2017

9:00a.m. GPA/PPW CUSTOMER APPRECIATION TABLE; Fadian, Julale, Upper Tumon

8:00a.m.-4:00p.m.

GPA 'ENERGY SENSE' EXHIBITOR TABLE – 2017 SOCIETY FOR HUMAN RESOURCES MANAGEMENT (SHRM) -GUAM CHAPTER ANNUAL CONFERENCE; Dusit Thani Hotel

6:00p.m.-10:00p.m.

GPA KARAOKE & DANCING NIGHT; Belle's Lounge-Tamuning

TUESDAY October 10, 2017

10:00a.m.

'POWER OF \$1' CHECK DONATION TO GUAM CHAPTER OF THE AMERICAN RED CROSS FOR HURRICANE RELIEF (TO BE TRANSMITTED TO THE NATIONAL AMERICAN RED CROSS); GPA Executive Office Foyer









