JEA FINANCE & AUDIT COMMITTEE AGENDA

DATE:	March 13, 2017
TIME:	8:00 – 10:00 AM
PLACE:	21 W. Church Street
	8 th Floor

				Responsible Person	Action (A) Info (I)	Total Time
I.	OP	ENING	G CONSIDERATIONS	Kelly Flanagan		
	Α.	Call	to Order			
	В.	Ado	ption of Agenda		А	
	C.	Арр	roval of Minutes – December 1, 2016	Melissa Charleroy	A	
П.	NE	N BU	SINESS			
	Α.	FY2	018 Budget Assumptions	Melissa Dykes	I	30 mins.
	В.	JEA	Annual Disclosure Policy Report	Melissa Dykes	I	5 mins.
	C.	Erns	st & Young FY2016 Revised Management Letter	Janice Nelson	I	5 mins.
	D.	Aud	it Services			
		1.	Quarterly ERM/Audit Update	Steve Tuten	I	10 mins.
		2.	Finance & Audit Committee Members – Self-Assessment Survey Questionnaire	Steve Tuten	I	5 mins.
	E.	Cyb	er Security Activities	Paul Cosgrave	I	10 mins.
	F.	CIP	Compliance Update	Ted Hobson	I	10 mins.
	G.	Ethi	cs Officer Report	Walette Stanford	I	5 mins.
	Н.	JEA	Energy Market Risk Management Policy Report	Steven McInall	I	5 mins.
	١.	Trea	asury			
		1.	Resolution Determining the Sufficiency of Revenues – St. Johns River Power Park	Joe Orfano	A	1 min.
		2.	Recap of Recent JEA Electric System Fixed Rate Debt Refunding Delegated Transactions	Joe Orfano	I	5 mins.
		3.	Electric System and Water and Sewer System Reserve Fund Quarterly Report	Joe Orfano	I	5 mins.
	J.	Ann	ouncements			
		1.	Next Meeting, May 8, 2017, 8:00 – 10:00 AM			
	K.	Con	mittee Discussion Sessions			
		1.	Ernst & Young	John DiSanto	1	5 mins.
		2.	Director, Audit Services	Steve Tuten	I	5 mins.
		3.	Council Auditor's Office	Robert Campbell	I	5 mins.
	L.	Adjo	purnment			

I. C.

Approval of Minutes

JEA FINANCE & AUDIT COMMITTEE MINUTES December 1, 2016

The Finance & Audit Committee of JEA met on Thursday, December 1, 2016, in the 8th Floor Conference Room, JEA Plaza Tower, 21 W. Church Street, Jacksonville, Florida.

Agenda Item I – Opening Considerations

- A. Call to Order Committee Chair Flanagan called the meeting to order at 2:02 PM with Members Board Chair Tom Petway and Husein Cumber in attendance. Board Vice Chair Ed Burr was absent and excused. Others in attendance were Paul McElroy, Melissa Dykes, Jody Brooks, Mike Brost, Brian Roche, Ted Hobson, Steve Tuten, Janice Nelson, Joe Orfano, Judi Spann, Steve McInall, Walette Stanford, Ryan Wannemacher, Jane Upton, Sharon Van Den Heuvel, Gerri Boyce, John DiSanto, Johan Flostrand, and Russ Jeans, Ernst & Young, Robert Campbell, Council Auditors Office, and Sebastian Kitchen, Florida Times-Union.
- B. Adoption of Agenda The agenda was adopted on **motion** by Mr. Cumber and second by Chair Petway.
- C. Approval of Minutes The August 8, 2016 minutes were unanimously approved on **motion** by Chair Petway and second by Mr. Cumber.
- D. Approval of Minutes The October 18, 2016 minutes were unanimously approved on **motion** by Chair Petway and second by Mr. Cumber.

Agenda Item II – New Business

- A. Quarterly Reports and Updates
 - 1. Audit Services Quarterly ERM/Audit Report Steve Tuten, Director, Audit Services, provided the Committee with key FY2016 and FY2017 Audit Services highlights, FY2017 Internal Audit Plan timeline, Enterprise Risk Management (ERM) Trend Report and key highlights, and Ethics Hotline Report. This presentation was received for information.
 - 2. Ethics Officer Quarterly Report Walette Stanford, Ethics Officer and Director, Workforce Strategies, presented the Ethics Officer Quarterly Report, which was received for information.
 - Electric System and Water and Sewer System Reserve Fund Quarterly Report Joe Orfano, Treasurer, reviewed the Electric System and Water and Sewer System Reserve Fund Quarterly Report, which was received for information.
 - 4. JEA Energy Market Risk Management Policy Report Materials were provided in the Finance and Audit Committee packages. No discussions were held.
- B. Action Items
 - JEA Calendar Years 2017 and 2018 Fixed Rate Refunding Debt Parameter Resolutions for Electric, Water and Sewer and St. Johns River Power Park Systems – Following a review of the item by Joe Orfano, Treasurer, on **motion** by Mr. Cumber and second by Chair Petway, the Committee unanimously recommends that the Board approve and adopt Resolutions No. 2016-21, 2016-22, 2016-23, 2016-24 and 2016-25 and the related forms of Bond Purchase Agreement, Preliminary Official Statement, Escrow Deposit Agreement and Bond that will provide the Managing Director/CEO the authorization to price and execute Electric System, Subordinated Electric System, Water and Sewer System, Subordinated Water and Sewer

System and St. Johns River Power Park System Issue Three, respectively, fixed rate refunding bonds within the stated parameters.

- C. Ernst & Young FY2016 External Audit Report John DiSanto, Executive Director, Assurance, presented an overview of the 2016 Audit Report and Management Letter, copies of which were provided to Committee Members. Committee Members were also provided with a draft copy of JEA's Audited Financial Statements. Mr. DiSanto recognized Russ Jeans, Senior Manager, and Johan Flostrand, Senior Manager. Chair Petway congratulated Mr. DiSanto and team, along with Melissa Dykes, Chief Financial Officer and staff for their excellent work.
- D. Announcements
 - 1. The next Finance and Audit Committee meeting is tentatively scheduled in March 2017 at 8:00 AM.
- C. Committee Discussion Sessions
 - 1. Director, Audit Services At 2:44 PM, Committee Chair Flanagan dismissed staff and the Committee held a general conversation with Steve Tuten, Director, Audit Services.
 - 2. Ernst & Young At 2:47 PM, the Committee held a general conversation with John DiSanto.
 - 3. Council Auditor's Office At 2:47 PM, the Committee held a general conversation with Robert Campbell.

Closing Considerations

With no further business claiming the attention of this Committee, the meeting was declared adjourned at 2:48 PM.

APPROVED BY:

Kelly Flanagan, Committee Chair Date: _____

Submitted by:

Melissa Charleroy Executive Assistant II. A.

FY2018 Budget Assumptions

II. A. Return 03/13/2017 to Agenda



February 27, 2017

SUBJECT:	FY2018 BUDGET ASSUMPTIONS
Purpose:	☐ Information Only ☐ Action Required
	t the key strategic issues, risks, major challenges and assumptions for the FY2018 Budget, and Audit Committee for feedback and direction.
Significance: impact the FY2	High. Key strategic issues and risks, major challenges, and assumptions significantly 2018 Budget.
Effect: The bu metrics.	dget process is integral to JEA's strategic planning, financial performance and resulting
major challeng	it: The Committee provides feedback and direction regarding the key strategic issues, risks, es, and assumptions for the FY2018 Budget covering: revenue; fuel revenue and expense; levels; interest rates and the resulting financial metrics; capital expenditures and related
	d Board action: Staff is providing this presentation for the Committee's consideration and back and direction regarding the FY2018 Budget.

For additional information, contact: Melissa Dykes

Submitted by: PEM/ MHD/ DRJ





Return to Agenda

FY2018 Budget

Review of Key Issues, Risks, Challenges and Assumptions

Finance & Audit Committee March 13, 2017





Strategic Issues and Risks

Key Assumptions

Electric System Budget Assumptions

Water and Sewer System Budget Assumptions

Government Transfers via the JEA Bill



FY2018 Budget: Strategic Issues and Risks

Strategic Plan Implementation - Emphasizing Business Excellence Opportunities

Seek out opportunities to drive business excellence through the EAM program and process improvements Remain focused on customer loyalty

Build on momentum toward building an unbeatable team

Workforce Readiness

Succession planning

Performance management

Workforce diversity

Financial Performance and Flexibility

Fuel supply and pricing flexibility Strong focus on expense management – strategic opportunities Pension cost

Future Environmental Constraints on Electric Generation

Customer Benefit Programs and rate structures

Renewable electricity and nuclear generation investment

Rightsizing long-term electric generation

Water Resource Management and Health of the St. Johns River

CUP¹ Compliance – Reclaim, conservation programs, minimum flow and levels (MFL) TMDL² goal attainment

Sewer system resiliency



Strategic Issues and Risks

Key Assumptions

Electric System Budget Assumptions

Water and Sewer System Budget Assumptions

Government Transfers via the JEA Bill



FY2018 Budget: Key Assumptions

Revenue Projections

- Economic activity remains stable or improves slightly
- Net customer account annual growth at 2%
- Annual Electric unit sales projected to be 12.4 million MWhs, flat to the MWhs budgeted in FY2017
- Annual Water unit sales projected to be 39 million Kgals, up from 35 million Kgal sales budgeted in FY2017

Fuel and Purchased Power Costs

- FY2018 projection reflects higher solid fuel prices
- FY2018 year-end fuel reserve balances projected to be 15% of target expense

Labor Costs

- Budgeted payroll expense increased only 7.7% in 10 years as a result of constrained hiring and multiple years of no general wage or salary increases
- Bargaining unit wages do not yet reflect newly-negotiated contracts
- Pension costs set to equal to FY17 levels as a placeholder
- Staffing risks mitigated with continuation of Workforce Readiness and Succession Planning initiative



Agenda

Strategic Issues and Risks

Key Assumptions

Electric System Budget Assumptions

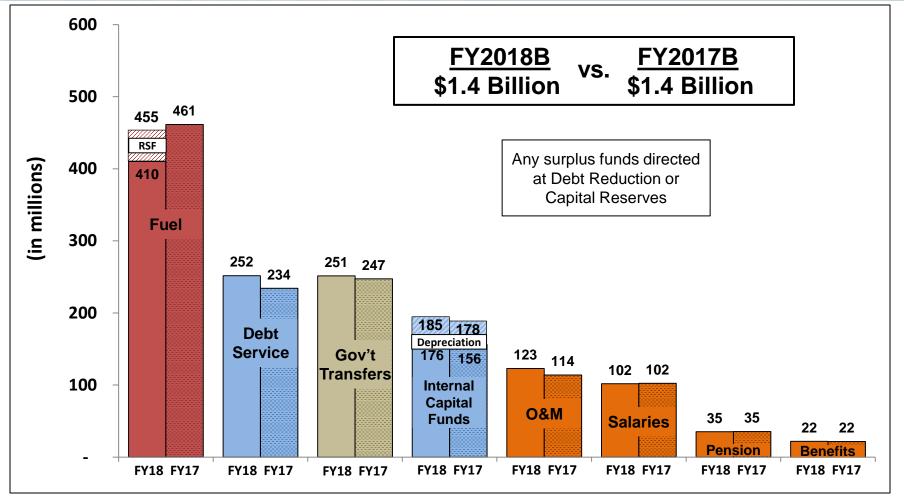
- ✓ Customer Electric Bill by Expense Category
- ✓ Revenue Drivers
- ✓ Fuel Rate
- ✓ Operating Expenses
- ✓ Capital Funding Debt Service, Oper. Capital Outlay and Renewal & Replacement
- ✓ Debt Service

Water and Sewer System Budget Assumptions

Government Transfers via the JEA Bill



FY2018 Budget: Customer Electric Bill by Expense Category

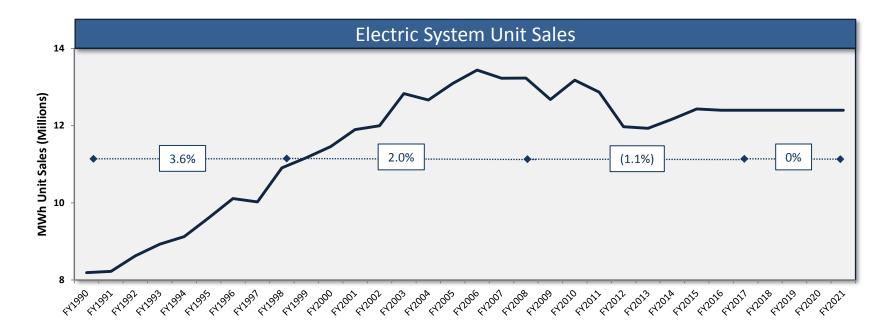


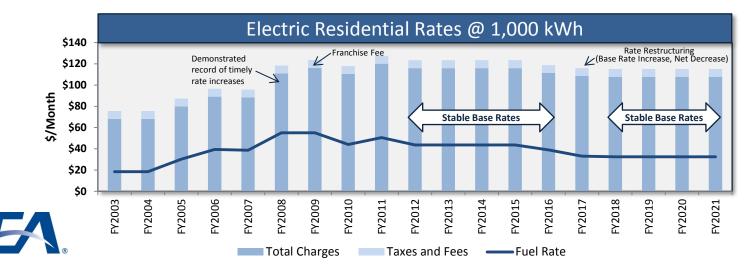
Notes:

1. Fuel includes Scherer transmission and capacity expenses. Fuel expense is \$455 million with a reduction of \$45 million from the Fuel Rate Stabilization Fund

- 2. SJRPP and Scherer non-fuel purchase power expenses included in Debt Service, Internal Capital and O&M
- 3. Government Transfers include City Contribution, COJ Public Service Tax, COJ Franchise Fee, State Gross Receipt Tax, and State and COJ Sales Tax (Commercial customers only)
- 4. O&M Salaries, Benefits, and Pension are net of capital
- 5. FY2018 O&M includes \$2M Natural Gas retail sale operations
- 6. Internal Capital Funds include JEA Electric System R&R and OCO, SJRPP R&R, and Scherer R&R, no new debt is required
- 7. Debt Service increase in FY2018 due to Advance Refunding

Electric System Unit Sales and Rates





Fuel Rate per MWH

	<u>FY2016</u>	FY2017F	FY2018B	<u>FY2019</u>
Variable Fuel Rate per MWh				
Fuel Rate Budgeted per \$/MWh	\$41.00	\$36.75	\$32.50	\$32.50
Reserve as a % of Target Expense	29%	20%	15%	12%
Annual Fuel Cost (millions)	\$397	\$448	\$443	\$435

Discussion and Analysis

- The Fuel Fund Rate Stabilization Reserve is currently at 20% of the historical maximum 12-month fuel expense
- Current projections are based on the NYMEX natural gas price forecasts and assume no major market disruption due to regulations

Note: Variable Fuel Rate decreased to \$32.50/MWh per Board approval in November 2016. New rate was made effective December 1, 2016.



FY2018 Electric System Budget: Operating Expenses

(\$ in millions)	FY2017 <u>Budget¹</u>	FY2018 <u>Budget¹</u>	<u>Variance</u>	Explanation
Salaries & Benefits	\$183.9*	\$186.4*	\$2.5	Step increases and market adjustments. Excludes new contract adjustments and related change in pension expense.
Other Services	101.4	109.1	7.7	Outages and Enterprise Asset Management
Material & Supplies	15.9	15.9	-	
Other	12.8	15.3	2.5	Insurance premium increase
Credits – Shared Services	(49.2)	(52.5)	(3.3)	Water Billing Credit and Enterprise Asset Mgmt
Credits – Capitalization	(38.7)	(38.5)	0.2	
Credits – Other	(17.0)	(17.3)	(0.3)	
Total	\$209.1	\$218.4	\$9.3	
	4	.4%		

Key Strategic Issues Included in Budget							
FY2017							
8.0	Generating Unit Outages (NS 1&2, CTs)	14.1					
2.6	Succession Planning Staffing Risks	2.6					
1.0	Climate Change	1.0					
2.0	Enterprise Asset Management	5.0					
4.3	Net Pension Increase	*					
*	Compensation	*					
\$17.9	Total	\$22.7					
	8.0 2.6 1.0 2.0 4.3 *	FY2018 8.0 Generating Unit Outages (NS 1&2, CTs) 2.6 Succession Planning Staffing Risks 1.0 Climate Change 2.0 Enterprise Asset Management 4.3 Net Pension Increase * Compensation					

Electric System: Capital Funding

FY2018 - Electric System Capital Budget: \$185 Million

System Maintenance: \$169 MillionSystem Expansion: \$16 Million• Renewal and Replacement• New or Expanded Generation• Distribution• New Transmission lines• Facilities, Fleet, Technology• New or Expanded Substations

Source of Capital Funding

Carryover Internal Funds \$7 million

Other Capital Outlay \$113 million

Renewal and Replacement \$65 million

Discussion and Analysis

• FY2018 capital funding plan utilizes existing capital cash balances to fund the "long-term eligible funds" qualified projects, resulting in <u>no new debt issuance</u> for FY2018

No New

Debt

- FY2017 capital plan budget was \$155 million, current forecast is \$147 million
- December 2016 rating agency FY2018 capital program was projected to be \$195 million

FY2018 Electric System Budget: Debt Service

	FY2017	FY2017	FY2018	Budget	
	Budget	Forecast	Budget	<u>Variance</u>	Explanation
Debt Service – Principal	\$90.0	\$129.9	\$124.2	\$34.2	Debt Restructuring
Debt Service – Prepayment	3.2	40.0		(3.2)	
Debt Service – Interest	100.9	98.1	94.3	<u>(6.6)</u>	Lower Debt Balance
Total ¹	<u>\$194.1</u>	<u>\$268.0</u>	<u>\$218.5</u>	<u>\$24.4</u>	
Debt Service Coverage	2.5x	2.4x	2.4x	(0.1x)	
Debt to Asset %	64.0%	62.0%	60.0%	(4.0%)	Accelerated Debt Paydown
Variable Rate Debt %					
Gross	21.0%	22.0%	23.0%	2.0%	Paydown of Fixed Rate Debt
Net of Swaps	7.0%	7.0%	7.0%		
Variable Interest Rate %	3.0%	2.4%	3.0%		
Liquidity – Days Cash ²	213	215	187	(26)	Cash Used on Debt Paydown

¹ Includes scheduled interest and principal payments to bondholders, variable rate financing costs, and swap payments

² Includes Renewal and Replacement

Agenda

Strategic Issues and Risks

Key Assumptions

Electric System Budget Assumptions

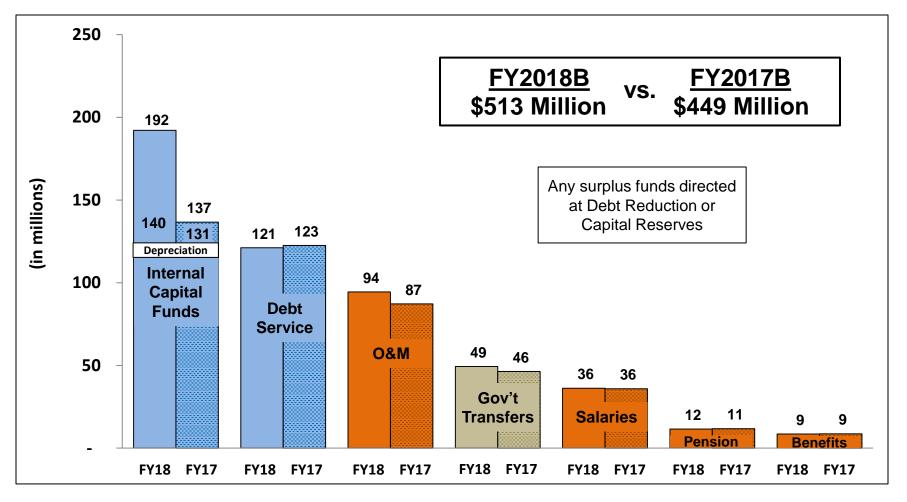
Water and Sewer System Budget Assumptions

- ✓ Customer Electric Bill by Expense Category
- ✓ Revenue Drivers
- ✓ Fuel Rate
- ✓ Operating Expenses
- ✓ Capital Funding Debt Service, Oper. Capital Outlay and Renewal & Replacement
- ✓ Debt Service

Government Transfers via the JEA Bill



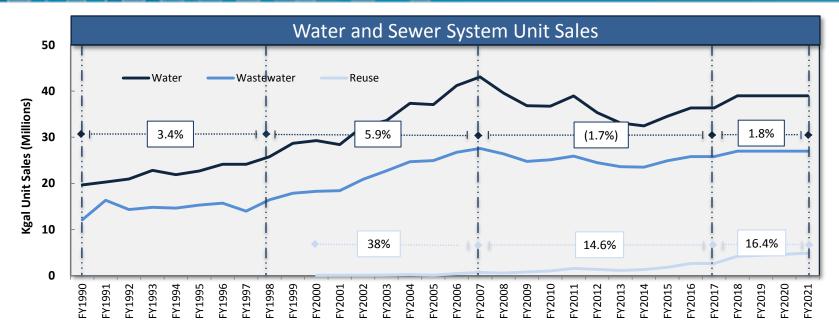
FY2018 Budget: Customer Water and Sewer Bill by Expense Category

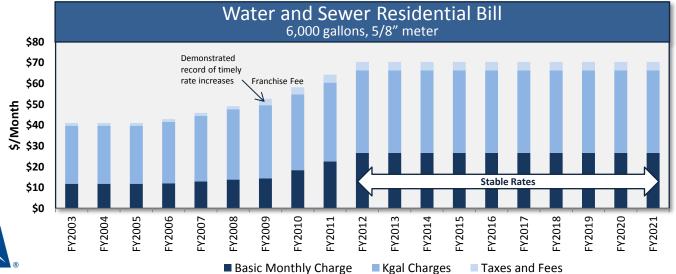


Notes:

- 1. Government Transfers include City Contribution, COJ Public Service Tax, and COJ Franchise Fee
- 2. O&M Salaries, Benefits, and Pension are net of capital
- 3. The FY2018 capital program is funded by Internal Capital, no new debt is required
- 4. FY2018 Debt Service increase reflects higher principal payments
- 5. Internal capital funds for FY2018 are greater than annual depreciation but less than the annual capital plan for FY2018. The capital budget for FY2018 is estimated at \$205m

Water & Sewer System Unit Sales and Rates





FY2018 Water and Sewer System Budget: Operating Expenses

(\$ in millions)	FY2017 <u>Budget¹</u>	FY2018 <u>Budget¹</u>	<u>Variance</u>	Explanation
Salaries & Benefits	\$67.8*	\$68.6*	\$0.8	Employees for new plant and system expansion. Excludes new contract adjustments and related change in pension expense.
Other Services	25.2	27.2	2.0	Storm generators and sewer resiliency
Material & Supplies	13.2	13.2	-	
Shared Services	49.1	52.8	3.7	Insurance premium increase and Enterprise Asset Management
Other	3.4	3.4	-	
Credits – Capitalization	(16.5)	(16.8)	(0.3)	
Credits – Fuel Handling	(0.5)	(0.5)		
Total	\$141.7	\$147.9	\$6.2	
	4	.4%		

Key Strategic Issues Included in Budget						
FY2017		FY2018				
Water Purification	\$1.0	Water Purification	\$1.0			
Succession Planning Staffing Risks	1.0	Succession Planning Staffing Risks	0.5			
		Enterprise Asset Management	2.0			
		Storm Generators	1.5			
		Sewer Resiliency	0.5			
Net Pension Increase	1.3	Net Pension Increase	*			
Compensation	*	Compensation	*			
Total	\$3.3	Total	\$5.5			

¹Excludes Customer Benefit and Environmental

Water and Sewer System: Capital Funding

FY2018 - Water and Sewer System Capital Budget: \$205 Million

Environmental: \$13 Million

System Maintenance: \$122 Million System Expansion: \$70 Million

- BMAP*/TMDL*/Reclaim
- Total Water Management Plan
- Major Environmental Initiatives
- Support COJ Septic Tank Phase-Out
- Basin Management Action Plan
- Total Maximum Daily Limit of Nitrogen

Source of Capital Funding

Environmental \$15 million

Renewal & Replacement \$23 million

Carryover Internal Funds \$12 million

Other Capital Outlay \$155 million

- Renewal and Replacement
- Distribution
- Facilities, Fleet, Technology

• New or Expanded Treatment

New Transmission lines

No New

Debt

 New or Expanded Master Pump Stations

Discussion and Analysis

- FY2018 capital funding plan utilizes existing capital cash balances to fund the "long-term eligible funds" qualified projects, resulting in <u>no new debt issuance</u> for FY2018
- FY2017 capital plan budget was \$205 million, current forecast is \$212 million
- December 2016 rating agency FY2018 capital program was projected to be \$200 million

FY2018 Water and Sewer System Budget: Debt Service

	FY2017 <u>Budget</u>	FY2017 <u>Forecast</u>	FY2018 <u>Budget</u>	Budget <u>Variance</u>	Explanation
Debt Service - Principal	\$51.0	\$51.0	\$51.7	\$0.7	
Debt Service - Prepayment		2.9			
Debt Service - Interest	71.6	70.4	<u> 69.4</u>	<u>(2.2)</u>	Lower Debt Balance
Total ¹	<u>\$122.6</u>	<u>\$124.3</u>	<u>\$121.1</u>	<u>(</u> \$1.5)	
Debt Service Coverage	2.2x	2.5x	2.6x	0.4x	
Debt to Asset %	50.0%	51.0%	48.0%	(2.0%)	
Variable Rate Debt %					
Gross	18.0%	18.0%	18.0%		
Net of Swaps	10.0%	10.0%	10.0%		
Variable Interest Rate %	3.0%	2.4%	3.0%		
Liquidity – Days Cash ²	396	405	363	(33)	Capital Expenses Internally Funded

¹ Includes scheduled interest and principal payments to bondholders, variable rate financing costs, swap payments, and Revolving Credit Agreement payments

² Includes Renewal and Replacement



Strategic Issues and Risks

Key Assumptions

Return

to Agenda

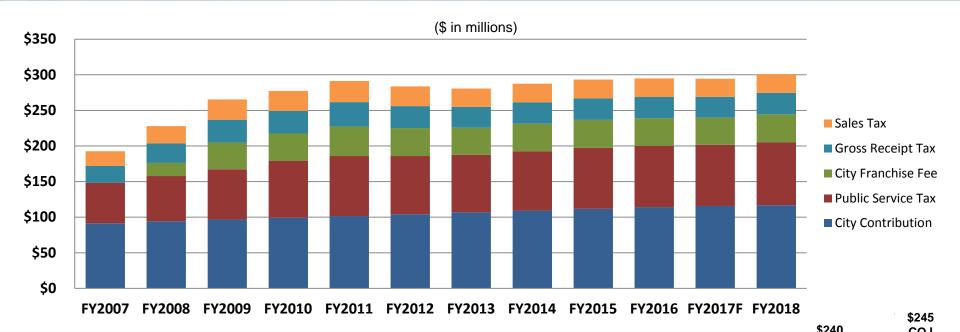
Electric System Budget Assumptions

Water and Sewer System Budget Assumptions

Government Transfers via the JEA Bill



Government Transfers via the JEA Bill



								4	240	COJ
Description	Paid To	FY2007	FY2008	FY2009	FY2014	FY2015	FY2016	FY2017F /	FY2018	/
City Contribution	COJ	\$91.4	\$94.2	\$96.7	\$109.2	\$111.7	\$114.2	\$115.8	\$117.0	
Public Service Tax	COJ	56.9	63.6	70.5	83.1	85.6	85.8	85.8	88.1 🖌	/
City Franchise Fee	COJ	-	18.3	37.5	39.0	39.4	38.9	38.2	39.4	
Gross Receipt Tax	State	23.7	27.6	32.1	30.2	30.2	29.8	29.2	30.2	
Sales Tax	State and COJ	20.6	24.1	28.5	26.1	26.4	26.0	25.5	26.3	
Total		\$192.6	\$227.8	\$265.3	\$287.6	\$293.3	\$294.9	\$294.5	\$301.0	-
Percent increase fro	om FY2007		18%	38%	49%	52%	53%	53%	56%	_

Discussion and Analysis

JEA transfers to the City of Jacksonville have increased to \$245 million

Board Review and Approval Schedule: FY2018 Budget and Rate Discussion

Date	Meeting	Activity / Objective		
March 13, 2017	Finance & Audit Committee	Review Budget and Rate Assumptions		
March 21, 2017	Board	Finance and Audit Committee Report		
May 8, 2017	Finance & Audit Committee	Final review of FY2018 Budget		
May 16, 2017	Board	Budget Review with full Board		
June 20, 2017	Board	Board to approve the FY2017 Budget		
July 1, 2017		Transmit JEA Board approved Budget with cover letter to City Council President		



Summary

Finance and Audit Committee Action

- Provide feedback and direction regarding the key strategic issues and risks for the FY2018 Budget specifically covering:
 - \circ Revenue
 - O&M Expense Levels
 - Interest Rates and Debt Structure
 - Financial Metrics
 - Workforce Readiness and Succession Planning

Staff

- Prepare Draft Budget, as well as related agenda items for review at the May Finance and Audit Committee meeting
- Prepare Draft Budget Summary for presentation at the May Board meeting
- Prepare budget package for approval at the June Board meeting
- Begin communication process with the Council Auditor
- Begin communication plan for other key stakeholders



II. B.

JEA Annual Disclosure Policy Report

II. B. Return 03/13/2017 to Agenda



February 22, 2017

SUBJECT:	JEA ANNUAL DISCLOSURE POLICY REPORT				
Purpose:	🛛 Information Only	Action Required	Advice/Direction		

Issue: JEA's Disclosure Policies and Procedures require that the Chief Financial Officer shall provide the Finance and Audit Committee each year a report regarding compliance with those policies, to report any issues or problems complying with those policies in the preceding twelve-month period and to present recommendations, if any, for changes to those policies.

Significance: High. JEA is responsible for the content of its market disclosures and is subject to the provisions of the federal securities laws prohibiting making material misstatements or omissions of material facts if necessary to avoid a misleading statement in its disclosure documents.

Effect: To support continued compliance with JEA's continuing disclosure agreements and federal securities antifraud laws through adherence with JEA's Disclosure Policies and Procedures.

Cost or Benefit: To reduce potential exposure to civil or criminal liability that could result from noncompliance with JEA's continuing disclosure agreements and federal securities laws.

Recommended Board action: No Board action is required. For information only.

For additional information, contact: Joe Orfano, Treasurer, 665-4541

Submitted by: PEM/ MHD/ JEO/ RLH



II. B. Return 3/13/2017 to Agenda



INTER-OFFICE MEMORANDUM

February 22, 2017

SUBJECT: JEA ANNUAL DISCLOSURE POLICY REPORT

FROM: Paul E. McElroy, Managing Director/CEO

TO: JEA Finance and Audit Committee

Kelly Flanagan, Chair Tom Petway Ed Burr Husein Cumber

BACKGROUND:

Federal securities laws require that disclosure documents of issuers such as JEA not contain an "untrue statement of a material fact" or omit a "material fact necessary in order to make the statements made, in light of the circumstances under which they were made, not misleading." "Materiality" under the federal securities laws means whether there is a substantial likelihood that a reasonable investor would consider the facts at issue to be important to an investment decision.

The SEC has further stated that public entities that issue securities are primarily liable for the content of their disclosure documents and are subject to federal securities laws prohibiting false and misleading information in their disclosure documents. Under certain federal antifraud laws, it is not necessary that an entity act recklessly or with intent or knowledge of wrongdoing; an entity may also be found liable even if found to be negligent.

In early 2015, staff worked with JEA's bond counsel firm, Nixon Peabody LLP, to document JEA's ongoing processes and procedures for monitoring and assessing operational, financial, regulatory, governmental and other developments within and outside JEA that need to be considered when preparing information that could reasonably be expected to find its way to investors, potential investors or other stakeholders in JEA securities. Nixon Peabody provided input from experience they gained through working with other public entities. Lessons learned from those experiences and industry best practices were combined with JEA's procedures and specific requirements to formulate the JEA Disclosure Policies and Procedures ("Disclosure Policies").

DISCUSSION:

In March 2015, Nixon Peabody conducted disclosure training sessions with the Board, senior leadership team and staff involved with the preparation and review of JEA's disclosure documents. Staff presented the Board draft revised Disclosure Policies for information at its April 21, 2015 meeting, and on May 19, 2015, the Board approved those Disclosure Policies. Those Board training materials and the Disclosure Policies are included in the orientation materials for all new members.

Among actions required under the Disclosure Policies, the Chief Financial Officer shall provide a report to the Finance and Audit Committee each year, at the meeting of the Finance and Audit Committee immediately preceding the public dissemination of the Annual Disclosure Reports, regarding compliance with the Disclosure Policies during the preceding twelve month period. This report shall (i) state whether the Annual Disclosure Reports for the current year are being prepared in compliance with these

Page 2

Disclosure Policies and whether all disclosure documents prepared during the prior twelve month period were prepared in accordance with the Disclosure Policies, (ii) describe any issues or problems which arose in connection with compliance with the Disclosure Policies during such period and (iii) present any recommendations for changes to the Disclosure Policies.

Staff is in the process of preparing the Annual Disclosure Reports for the fiscal year ended September 30, 2016, and plans to seek the Board's approval and authorization to disseminate those reports at its April 18, 2017 meeting. In accordance with past practice and prior Boards' requests, staff intends to provide Board members with substantially final drafts for their review at the March 21, 2017 Board meeting.

RECOMMENDATION:

No Board action is required. For information only.

Paul E. McElroy, Managing Director/CEO

PEM/MHD/JEO/RLH

II. B. Return 3/13/2017 to Agenda

To:	Finance & Audit Committee
From:	Melissa H. Dykes, Chief Financial Officer
Date:	February 22, 2017
Re:	Report delivered pursuant to Section 7.5 of JEA's Disclosure Policies and Procedures

In accordance with Section 7.5 of JEA's Disclosure Policies and Procedures, dated May 19, 2015 (the "Disclosure Policies"), which requires the Chief Financial Officer to report to the Finance and Audit Committee regarding compliance with the Disclosure Policies during the preceding twelve-month period, I hereby report the following:

1. All Annual Disclosure Reports and Disclosure Documents prepared during the prior twelve-month period were prepared in accordance with the Disclosure Policies.

2. No issues or problems have arisen in connection with compliance with the Disclosure Policies during the prior twelve-month period.

3. At this time, there are no recommendations to make changes to the Disclosure Policies. A copy of the Disclosure Policies is attached to this report.

4. A copy of the Disclosure Policies has been distributed to all Board members and to all Finance Staff and Staff participating in the disclosure process.

5. A printed copy of each final Annual Disclosure Report for fiscal year ended September 30, 2015 was provided to all members of the JEA Board at their offices on T-8 of the JEA tower on April 27, 2016.

6. The Annual Disclosure Reports for the fiscal year ended September 30, 2016 are being prepared in compliance with the Disclosure Policies. Informational copies of the current drafts of the Annual Disclosure Reports are available to any Finance and Audit Committee member who requests copies of such draft Reports. Near-final drafts of the Annual Disclosure Reports will be provided to Board members at the March 21, 2017 Board meeting with a request to approve the documents at the April 18, 2017 Board meeting. II. C.

Ernst & Young FY2016 Revised Management Letter

II. C. Return 3/13/2017 to Agenda



February 27, 2017

SUBJECT:	ERNST & YOUNG FY2016 REVISED MANAGEMENT LETTER				
Purpose:	Information Only	Action Required	Advice/Direction		

Issue: Auditing standards require the auditors to communicate certain matters to the Governing Board that may assist the Board in overseeing management's financial reporting process. Representatives from Ernst & Young, LLP (E&Y) attended the December 1, 2016 Finance and Audit Committee meeting to discuss FY2016 audited results. E&Y presented an Audit Results book, which summarized the results of the audit and also contained communications required by auditing professional standards, including a Management Letter. There were no Management Letter comments related to FY2016; however, there were two prior year's comments that were in the process of being remediated at the end of the fiscal year that were inadvertently omitted from the report.

Significance: Auditing standards require the auditors to communicate certain matters to the Governing Board that may assist the Board in overseeing management's financial reporting process.

Effect: Board oversight is a critical component of the financial reporting provided to investors, ultimately lowering JEA's borrowing costs.

Cost or Benefit: See effect above for benefits.

Recommended Board action: No action by the Committee is required. This item is submitted for information only.

For additional information, contact: Janice Nelson

Submitted by: PEM/ MHD/ JRN



II. C. Return 3/13/2017 to Agenda



INTER-OFFICE MEMORANDUM

February 27, 2017

SUBJECT: Ernst & Young FY2016 Revised Management Letter

FROM: Paul McElroy, Managing Director/CEO

TO: JEA Finance and Audit Committee

Kelly Flanagan, Chair Tom Petway Ed Burr Husein Cumber

BACKGROUND:

Auditing standards require the auditors to communicate certain matters to the Governing Board that may assist the Board in overseeing management's financial reporting process. Representatives from Ernst & Young, LLP (E&Y) attended the December 1, 2016 Finance and Audit Committee meeting to discuss FY2016 audited results. E&Y presented an Audit Results book, which summarized the results of the audit and also contained communications required by auditing professional standards, including a Management Letter. There were no Management Letter comments related to FY2016; however, there were two prior year's comments that were in the process of being remediated at the end of the fiscal year that were inadvertently omitted from the report.

DISCUSSION:

Attached is the revised Management Letter from E&Y. Also attached is management's response to the recommendations. The management responses have been reviewed with E&Y's staff and they are in agreement with the recommended action plans. E&Y is in the process of testing the new processes that will be implemented by JEA and will complete the testing as part of the review of IT systems during the fiscal year 2017 audit.

RECOMMENDATION:

No action by the Committee is required. This item is submitted for information only.

Paul E. McElroy, Managing Director/CEO

PEM/MHD/JRN

Management Letter on Internal Control and State Reporting Requirements

The Board of Directors JEA Jacksonville, Florida

In planning and performing our audit of the financial statements of JEA for the fiscal year ended September 30, 2016, in accordance with auditing standards generally accepted in the United States, we considered JEA's internal control over financial reporting (internal control) as a basis for designing our auditing procedures for the purposes of expressing our opinion on the financial statements, but not for the procedures for the purpose of expressing an opinion on the effectiveness of JEA's internal control.

A deficiency in internal control exists when the design of operation of a control does not allow management or employees, in the normal course of performing their assigned functions, to prevent, or detect and correct misstatement on a timely basis. A material weakness is a deficiency, or a combination of deficiencies, in internal control, such that there is a reasonable possibility that a material misstatement of the entity's financial statements will not be prevented or detected and corrected, on a timely basis

Our consideration of internal control was for the limited purpose described in the first paragraph and was not designed to identify all deficiencies in internal control that might be deficiencies, significant deficiencies, or material weaknesses. We did not identify any deficiencies in internal control that we consider to be material weaknesses, as defined above.

Other Required Disclosures

Report on the Financial Statements

We have audited the United States the accompanying basic financial statements of JEA, which comprise the statement of net position as of September 30, 2016, and the related statements of revenues, expenses and changes in net position and cash flows for the year then ended, and the related notes to the financial statements, and have issued our report, with an unmodified opinion thereon, dated December 1, 2016.

Auditor's Responsibility

We conducted our audit in accordance with the auditing standards generally accepted in the United States of America; the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States; and Chapter 10.550, *Rules of the Auditor General*.

Other Reports

We have issued our Report of Independent Certified Public Accountants on Internal Control Over Financial Reporting and Compliance and Other Matters Based on an Audit of the Financial Statements Performed in Accordance With *Government Auditing Standards* and our Report of Independent Certified Public Accountants on Compliance on an examination conducted in accordance with AICPA Professional Standards, Section 601, regarding compliance requirements in accordance with Chapter 10.550, *Rules of the Auditor General* (collectively, the Reports). Disclosures in those Reports, which are dated December 1, 2016, should be considered in conjunction with this management letter.

Prior Audit Findings

Section 10.554(1)(i)1., *Rules of the Auditor General*, requires that we determined whether or not corrective actions have been taken to address findings and recommendations made in the preceding annual and financial audit report. The current status of our prior year findings are as follows:

Finding No. 2015-01 Change management related to IT General Controls - in process of remediation.

Finding No. 2015-02 Logical access related to IT General Controls - in process of remediation.

Official Title and Legal Authority

Section 10.554(1)(i)4., *Rules of the Auditor General*, requires that the name or official title and legal authority for the primary government and each component unit of the reporting entity be disclosed in this management letter, unless disclosed in the notes to the financial statements. JEA has included such disclosures in the notes to the financial statements.

Financial Condition

Section 10.554(1)(i)5.a., *Rules of the Auditor General*, requires that we report the result of our determination as to whether or not JEA has met one or more of the conditions described in Section 218.503(1), Florida Statues, and identification of the specific condition(s) met.

Pursuant to Sections 10.554(1)(i)5.c. and 10.556(8), *Rules of the Auditor General*, we applied financial condition assessment procedures that were agreed to by management of JEA. See our Report of Certified Public Accountants on Applying Agreed-Upon Procedures dated December 1, 2016, for our procedures and findings.

Other Matters

Section 10.554(1)(i)2., Rules of the Auditor General, requires that we address in the management letter any recommendations to improve financial management. In connection with our audit, we did not have any such recommendations. Section 10.554(i)3., Rules of the Auditor General, requires that we address noncompliance with provisions of contracts or grant agreement, or abuse, that have covered, or are likely to have occurred, that have an effect in the financial statements that is less than material but which warrants the attention of those charged with governance. See our Reports identified under "Other Reports" section above.

Purpose of This Letter

Our management letter is intended solely for the information and use of the Florida Auditor General, the Board of Directors of JEA, and management is not intended to be and should not be used by anyone other than specified parties.

Ernst + Young LLP

December 1, 2016

II. C. Return 3/13/2017 to Agenda

Management Responses

Management Letter for the year ended September 30, 2016

Observation	Recommendation	Management Response
2015-01 Change Management Related to IT General Controls Certain users had the ability to migrate changes to production for the Oracle ERP and no mitigating control was in place for a periodic review of changes performed by management. This present a segregation of duties issue, as the users with knowledge of the password on both the development and production environments can circumvent the change management process and directly develop and apply changes in production. There is a risk that individuals that have the ability to migrate changes to production could also develop a change that circumvents the change management process without monitoring control in place for these changes to be subject to a formal review.	It is recommended that either a review be performed by appropriately configuring and utilizing the Tripwire agent at a frequency agreed upon by management to include all changes migrated to production, or remove the ability to develop changes for those users who have the access to migrate changes to production.	 JEA implemented two monitoring control processes related to Tripwire and Change Management (CM) to mitigate the risk of unauthorized changes in production: 1) Tripwire to CM Process Review. The Tripwire agent generates a report of all changes migrated into production. Information Security monitors and generates a ticket to the Oracle ERP to perform a review and document the corresponding approved CM ticket number. 2) CM to Tripwire Process Review. JEA has developed a reconciliation review process wherein all Oracle ERP CM's are validated back to a Tripwire Ticket, with appropriate reviews and actions.
2015-02 Logical Access Related to IT General Controls We identified during the fiscal year 2015 audit that a user's Oracle application account was not disabled subsequent to their termination date. This presents a risk that the user's account could be utilized to access the Oracle application and perform activities that go undetected.	While a user access review is currently utilized, it is recommended that a more frequent periodic user access review be performed at a frequency agreed upon by management to include all users with access to the Oracle application. It is also recommended the review validate each user is an active employee and each user's access rights within the Oracle application are appropriate.	In accordance with our Access Administration Corporate Policy TS B0010 IS 003, the Oracle Application attestations will be held quarterly. As such, resource owners will review the users assigned to their responsibilities, validating that each user is an active employee and access rights are still appropriate. Management will work with resource owners on the accountability of complete and accurate attestations.

II. D. 1.

Quarterly ERM/Audit Update

II. D. 1 Return 03/13/2017 to Agenda

Audit Services Q1 FY17 Report

Steve Tuten - Director, Audit Services



Audit Services Q1 FY17 Report – Table of Contents

	<u>Topic</u>	Pages
•	Internal Audit	3-4
•	Enterprise Risk Management (ERM)	5-12
•	Ethics Investigations & Audit	13-16



- Senior Auditor Open Position We recently closed our third recruitment posting without finding a satisfactory candidate. Recently, there has not been as much of the usual talent movement between local companies. We will continue to use the Randstad contractor (Chris Page) for the short term.
- **FY17 Internal Audit Plan** We are slightly behind schedule, due primarily to the open position. The current timeline for the FY17 Internal Audit Plan is shown on page 4.
- Open Audit and Investigation Report Issues As of 12/31/16, there were 33 open issues requiring management's corrective action plans. This represents an increase of five open items since our last report.



FY17 Internal Audit Plan – Schedule

			Ð	7 2017 Hou	15	Eirs	<u>st Draft Repor</u>	ţ				20	017 Au	ıdit Ti	dit Timeline		
Audit/Project	Auditor- in-Charge	Status	Budgeted Hours <i>(adjusted</i>)	Actual Hours	₩ill Meet/Met Budget	Audit Estimate due date <i>(italics if</i> apdated)	Actual Date	₩ill Meet/Met Due Date	Comments	Final Draft Report Date	Audit Report Rating	Oct	Nov	Dec	Jan	Feb	
2016 Distribution, Development & Joint Projects (400 hrs. total)	Troy England (TE)	Second Draft Issued	60	257	•	8/29/2016	1/6/2017		Exceeded budget due to the time it's taken to thoroughly go through each project and grasp the processes involved.	тво	Satisfactory						
2016 Facilities Management (375 hrs. total - 116 hrs. in FY16)	David Arnold (DA) / Chris Page (CP)	Final Draft Issued	259	188		11/7/2016 (1)	12/2/2016	•	Audit Estimate updated due to Call Center work during Hurricane Matthew. Exceeded budget due to issues related to ADA. Chris Page hrs. not included in calculation.	1/17/2017	Satisfactory						
2016 System Protection & Controls (350 hrs. total - 191 hrs. in FY16)	Laurie Gaughan (LG)	Final Draft Issued	159	155	•	111312016 (1)	11/8/2016	•	Audit Estimate updated due to Call Center work during Hurricane Matthew	11/29/2016	Satisfactory						
Information Security <i>(FY16 - 60hrs.)</i> / FY17 500 hrs.]	Rashid Brittain (RB)	Testing	500	432		212112017 (1)	TBD	•	Audit Estimate updated due to Call Center work during Hurricane Matthew. Initial Workpaper review has started, very complex audit with many issues.	TBD							
TEA Audit	LG	Completed	100	99		No Report	N/A	N/A	Audit conducted 11/14-18/16. Nebraska Public Power District (NPPD) led audit.	N/A	Final report to be issued by NPPD.						
JEA & SJRPP FY2016 Performance Pay Audit	TE	Completed	200	79	•	11/22/2016 (JEA)	11/17/2016 (SJRPP) 11/22/2016 (JEA)	•	Memos were issued for JEA and SJRPP Performance Pay reviews.	11/17/2016 (SJRPP) 11/22/2016 (JEA)	-						
Real Estate Services & Revenue Contracts	CP/DA	First Draft Issued	350	91		1/23/2017	2/10/2017		Hours for Randstad resource (CP) are not tracked on this spreadsheet.	TBD	Satisfactory						
SJRPP Enviro Engineering & Preventive Maintenance	LG	Reporting	350	270	•	2/28/2017	TBD	•	Workpaper review is completed. First draft report is projected to be issued by due date.								
Security	DA/RB	Testing	DA - 375 RB - 175	DA - 231 RB - 100	\bigcirc	2/28/2017	TBD	\bigcirc	Initial workpaper review has started, but audit estimated due date will not be met.								
W/WW Reuse & Delivery	TE	Testing	440	183	\bigcirc	4/18/2017	TBD										
Electric Production CT Operations	LG	Planning	400	2	\bigcirc			N/A									
FY2017 Action Plan Follow-Up	All Staff	Ongoing	400	135	•												

Notes:

(1) Updated due to Hurricane Matthew call center duties.

>10% variance in hours from estimate >10 workdays from estimate.
Variance within 10% of hours or 10 workdays from estimate.
No negative variance in hours or days.
Not Applicable or no data.

Completed Audit In-Progress Audit Scheduled Audit Pending Audit Administrative



Enterprise Risk Management (ERM) Highlights

- Updated Total Risk Scores The following risk scores have been adjusted to reflect the certainty of required compliance and/or changes in the estimated impact/cost:
 - **Effluent Guidelines** Score decreased from a 4 impact/5 likelihood to a 3 impact/5 likelihood to reflect the decrease in projected cost for compliance.
 - Sanitary Sewer Overflows (SSOs) Score increased from a 2 impact/4 likelihood to a 3 impact/4 likelihood, driven by potential changes in weather patterns and the potential for more stringent state reporting requirements and operating standards. Increased investment in our infrastructure has reduced the likelihood of a significant SSO event.
- Clean Power Plan (CPP)
 - The CPP risk is being reassessed due to political changes at the federal government/regulatory agency levels. These may add uncertainty to the CPP requirements, such as less stringent standards and/or extended timeframes for compliance. Current mitigations focus on monitoring CPP changes to reassess impact and requirements.



ERM Highlights (cont.)

- Water Quality Risk Current efforts focus on ensuring compliance with current and potential additional regulatory requirements including, but not limited to increased monitoring, and upgrading infrastructure assets. The risk and mitigation efforts have been expanded to address increased public and media awareness of water quality issues.
- Business Unit Risk Assessments Continuing to better align business processes with top corporate risk mitigations efforts, as well as identify/manage risks that may negatively impact business objectives. Eleven (11) assessments completed to date, with eight (8) in progress, and seven (7) additional areas planned for FY17.
- Training The latest iteration of ERM training is soon to be available to all appointed employees and is expected to further enhance JEA's overall risk management culture, risk identification/mitigation skills, and interdepartmental synergy.
 - Since the September, 2016 rollout, 75 employees (40% of Directors/Managers) have attended the class. The training has been well received and appears to be meeting its objectives.



ERM Committee Structure

• **Purpose** - JEA's ERM program identifies, assesses, measures, monitors and actively manages risk, including mitigation strategies and actions. Top corporate risks are reviewed monthly by the Enterprise Compliance & Risk Committee (ECRC) & quarterly with the Board.

ECRC & Subcommittees

- Electric Risk
- FERC/NERC/CIP Electric Compliance
- Fuel and Purchased Power
- Debt and Investment
- Revenue and Expense Management
- Technology Projects
- Information Technology Risk
- Compliance Oversight
- Water and Wastewater Regulatory Compliance





ERM Corporate Risk Heat Map

	Top Corporate Ris Tier 1 (See p. 9)	ks	Score 10-25					Imr	act x
	Tier 2 (See p. 10)		5-9					-	ihood
	Tier 3 (See p. 11)		1-4					Sc	ore
	Almost Certain >90%	5	5	10	15	20	25	15-25	Red
	Likely 65-90%	4	4	8	12	16	20	10-12	Orange
poo	Possible 35-65%	3	3	6	9	12	15	8-9	Yellow
Likelihood	Unlikely 5-35%	2	2	4	6	8	10	4-6	Light Green
	Rare <5%	1	1	2	3	4	5	1-3	Dark Green
			1	2	3	4	5		
			Minor	Moderate	Significant	Major	Severe		
		•		mpact					



*The risk score is a factor of the risk impact x likelihood.

ERM – Tier 1 Top Corporate Risk Trends

Trends as of Current Quarter (Q2 FY17)																	
Risk	F١	′13		FY	14			FY	15			FY	16		FY1	7	Long Term Risk
E= Electric, W= Water/Wastewater. F= Financial, H= Human Resources, T= Technology, C= Corporate-wide. Risks are in order by risk score within Business Function	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1 C	22	Exposure Trend (> 5 Years)
Electric Risks																	
E1 - Carbon Emission Mitigation - Clean Power Plant	20	20	20	20	25	25	25	25	25	25	25	25	25	25	25 2	25	↔ Stable
E2 - Effluent Limit Guidelines for Steam Units	12	16	16	16	16	16	16	16	16	16	16	16	16	20	20 1	.5	↔ Stable
E4 - Adverse Electric Commodity Supply and Pricing	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12 1	.2	↔ Stable
E3 - Coal Combustion Residual Rule (CCR)	15	15	15	15	15	15	15	15	10	10	10	10	10	15	15 1	.5	↔ Stable
E5 - Cooling Water Intake Structures 316(b)	10	10	10	10	10	10	10	10	10	10	10	10	10	20	20 2	20	↔ Stable
E6 - Long-term Planning/Load Forecast - Electric	6	6	6	6	10	10	10	10	10	10	10	10	10	10	10 1	.0	↑ Increasing
E7 - Critical Infrastructure Protection (CIP) Compliance	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10 1	.0	↑ Increasing
Water/Wastewater Risks																	
W1 - Water Supply Management/Long Term Planning	12	12	12	12	12	15	15	15	15	15	15	15	15	15	15 1	.5	↑ Increasing
W3 - Sanitary Sewer Overflow Management	6	6	6	6	6	6	6	8	8	8	8	8	8	8	12 1	.2	↓ Decreasing
Corporate Wide Risks																	
H1 - Pensions	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20 2	20	\leftrightarrow Stable
F1 - Revenues and Expenses Management	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16 1	.6	↑ Increasing
C1 - Customer Relationship Management	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12 1	.2	↔ Stable
C2 - Physical Security (Facilities Infrastructure Security and Regulatory Compliance)	9	9	9	12	12	12	12	12	12	12	12	12	12	12	12 1	2	↑ Increasing
C3 - New Technology					12	12	12	12	12	12	12	12	12	12	12 1	.2	↑ Increasing
C16 - Weather & Climate Change Impact												15	15	15	15 1	.5	↑ Increasing



*The Q2 FY2017 risk scores are as the current date.

ERM – Tier 2 Top Corporate Risk Trends

Trends as of Current	Trends as of Current Quarter (Q2 FY17)																
Risk	FY	13		FY	14			FY	15			FY	16		FY	17	Long Term Risk
E= Electric, W= Water/Wastewater. F= Financial, H= Human Resources, T= Technology, C=	0.2	~	01	02	02	~	01	01	02	~	01	0	02	01	01	02	Exposure Trend
Corporate-wide. Risks are in order by risk score within Business Function	Q3	Q4	QI	QZ	Q3	Q4	QI	ųΖ	Q3	Q4	QI	Q2	Q3	Q4	QI	QZ	(> 5 Years)
Electric Risks		-		-							-					-	
E8 - SJRPP	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	↑ Increasing
E9 - FERC/NERC (Section 693) O&P Reliability & Compliance	9	9	9	9	9	8	8	8	8	8	8	8	8	8	8	8	↔ Stable
E10 - Nuclear Power Portfolio	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	↑ Increasing
E11 - Infrastructure Maintenance - Electric Systems Assets	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	↔ Stable
E20 - Operations Technology Management - Electric	4	4	4	4	4	4	4	6	6	6	6	6	6	6	6	6	↔ Stable
E12 - By Product Management	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	↔ Stable
E13 - Infrastructure Destruction Due to Severe Weather	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	↔ Stable
Water/Wastewater Risks																	
W2 - Operations Technology Management - Water/Wastewater Systems	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	↔ Stable
W4 - Infrastructure Maintenance - Water/Waste Water Systems	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	↔ Stable
Corporate Wide Risks																	
C5 - Records Management	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	↔ Stable
C6 - Fraud Risk Management	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	↑ Increasing
T2 - Cyber Security Information Protection		9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	↑ Increasing
H2 - Staffing	16	12	12	9	9	9	9	9	9	9	9	9	9	9	9	9	↔ Stable
H3 - Public and Employee Safety	6	6	6	6	9	9	9	9	9	9	9	9	9	9	9	9	↔ Stable
T1 - Technology Infrastructure Reliability	12	12	12	12	12	12	12	4	4	4	4	8	8	8	8	8	↔ Stable
T3 - Cyber Security Business Disruption								8	8	8	8	8	8	8	8	8	↑ Increasing
T4 - Technology Services Disaster Recovery/Business Continuity								8	8	8	8	8	8	8	8	8	↔ Stable
T5 - Technology Services Resource Optimization											9	9	9	9	9	9	↑ Increasing
C7 - Disaster Recovery/Business Continuity	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	↔ Stable
C8 - Black Swan (High Impact - Low probability event)	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	↔ Stable
F3 - Credit Availability/Cost	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	↔ Stable
C9 - Other Regulatory Compliance	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	↔ Stable
F4 - Counterparty Risk	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	↔ Stable
C4 - External Influence on Policy	9	9	9	10	10	10	10	10	10	10	10	8	8	8	8	8	↔ Stable
W6 - Water Quality Management													8	8	8	8	\leftrightarrow Stable

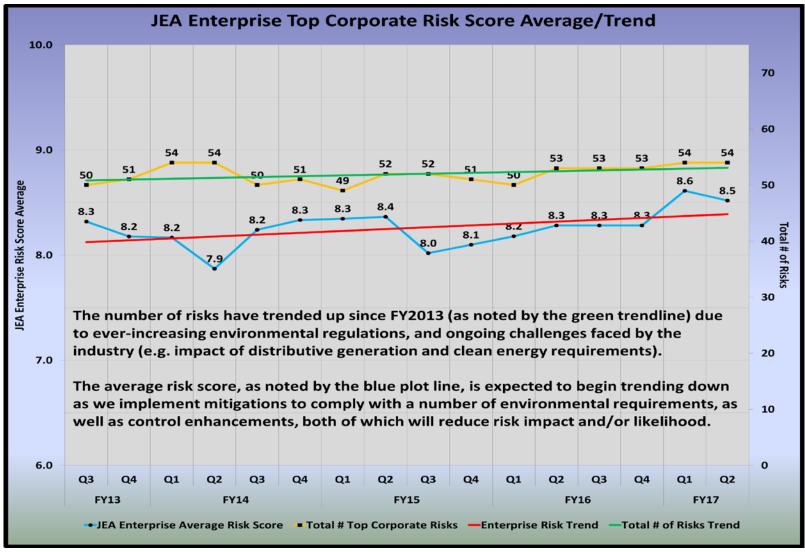


ERM – Tier 3 Top Corporate Risk Trends

Trends as of Curren	Trends as of Current Quarter (Q2 FY17)																
Risk	FY1	13		FY	′14			FY	15			FY	16		FY	17	Long Term
E= Electric, W= Water/Wastewater. F= Financial, H= Human Resources, T= Technology, C= Corporate-wide. Risks are in order by risk score within Business Function	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Risk Exposure Trend (> 5 Years)
Electric Risks																	
E15 - TEA Activities Risk Management	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	↔ Stable
E16 - Air Emissions Reduction Regulatory Initiatives	20	20	20	20	4	4	4	4	4	4	4	4	4	4	4	4	↔ Stable
E17 - Mercury and Air Toxics Standards (MATS)	15	15	15	15	15	4	4	4	4	4	4	4	4	4	4	4	↔ Stable
E18 - Renewable Energy Standards	20	20	3	3	3	3	3	3	3	3	3	3	3	3	3	3	↔ Stable
E19 - Plant Scherer Environmental Lawsuit		6	6	6	4	1	1	1	1	1	1	1	1	1	1	1	↓ Decreasing
E21 - Natural Gas Sales - Commercial Customers									6	6	6	6	6	6	1	1	↔ Stable
Water/Wastewater Risks																	
W5 - Numeric Nutrient Criteria Mandates	10	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	↔ Stable
Corporate Wide Risks																	
C10 - Project Risk Assessment and Capital Allocation	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	↔ Stable
C12 - Capacity Plan Land Acquisition	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	↔ Stable
C13 - Key Customer Accounts Management	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	↔ Stable
F2 - Financial Regulatory Compliances (e.g. Dodd-Frank Bill)	9	9	9	9	9	9	9	9	4	4	4	4	4	4	4	4	↔ Stable
F5 - IRS Bond Audit Records Requirements	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	\leftrightarrow Stable
H4 - Benefits	6	6	6	6	6	6	6	6	4	4	4	4	4	4	4	4	↔ Stable
C14 - Environmental Compliance Management	1	1	1	1	1	4	4	4	4	4	4	4	4	4	4	4	↔ Stable



ERM – Top Corporate Risk Average Trends





- Case volume handled through the Ethics Hotline (EHL) has increased steadily since its 2006 inception, with 61% received within the last four years (1/1/13-12/31/16).
- JEA is now working regularly with the City's Office of the Inspector General (OIG) regarding any fraud, waste or abuse complaints we receive through the EHL and other sources.
- To date, we have reported four complaints to the OIG, with JEA taking lead on one case, and assisting the OIG with the other cases. When necessary, our JSO liaison has been engaged to assess for any potential criminal activity.



Open Cases 9/30/2016	Cases Opened 1Q FY17	Cases Closed 1Q FY17	-	Cases /2016
9	6	7	8	3
Categories For C	Cases Opened Duri	ng 1Q FY17		
Conflict of Intere	est/Ethics Matters		4	
Fraud/Waste/Ab	ouse		2	
Total			6	



Summary of Closed EHL Cases - 1Q FY17

Reporting Source	Allegation	Investigation Results
Internal	JEA-16-04-0002 – An individual reported that JEA should look into an employee's unusual badging activity in comparison with reported hours worked.	We determined there was a gap in the employee's badging activity for approximately twenty weeks during which the employee was attempting to use an old badge and calling the front desk to gain access when the exterior gates were closed. Based on the employee's approved time reports along with the Manager's verification, we concluded the employee was at work for the time period in question.
Internal	JEA-16-06-0003 - After learning of a JEA employee's arrest, Management requested an internal investigation to determine if any activities related to the nature of the arrest were conducted by the employee on company time/property or using JEA resources.	Evidence revealed that while at work the employee was tunneling under JEA's firewall to access inappropriate websites. We also found two emails that appeared to be related to the nature of the arrest. The employee resigned and admitted to misusing JEA equipment and circumventing JEA's firewall to access inappropriate websites.
Internal	JEA-16-007-0002 – As a result of internal monitoring, Management reported information indicating possible issues with an employee who changed customers' Social Security numbers.	Our investigation concluded the employee violated JEA policies and procedures by taking customer calls from a family member and friends, and waiving required deposits. Also, company policy was not always followed for running credit checks, requiring two forms of identification, and prepaying deposits. After a Fact Finding meeting, the employee submitted a letter of resignation, which was accepted. Recommendations were made to strengthen the related controls over customer accounts.



Summary of Closed EHL Cases - 1Q FY17 (cont.)

Reporting Source	Allegation	Investigation Results
External	JEA-16-08-0002 – A member of JEA Senior Management received a JSO inmate information search report indicating an arrest of a JEA employee in 2010.	We confirmed the JEA employee was arrested in 2010; however, the arrest occurred outside of JEA, and the charge was subsequently dropped. Our investigation of more recent activity did not reveal any related misuse of JEA resources by the employee.
Internal	JEA-16-08-0003 – JEA's Security Contractor discovered copper wire in the trash dumpster at JEA's Southside Service Center. The approximate value of the copper was \$260.	The investigation revealed JEA employees were improperly disposing of copper scrap in the trash dumpster rather than in the scrap bins. The employees were issued Letters of Counseling, and Management conducted a meeting to remind employees that scrap metals should not be placed in the trash.
External	JEA-16-09-0002 – JEA's metal recycling vendor reported approximately 3,190 pounds of copper (valued at \$4,500) had been stripped from wire casings, which were placed in a scrap metal dumpster at SJRPP.	There was no evidence of copper wire theft from this project, and the wire casings should have been placed in the trash receptacle in lieu of the scrap metal container. The investigation revealed opportunities for process improvements in Investment Recovery and Project Planning/Design relating to the disposal of scrap material.
Internal	JEA-16-11-0002 – An employee may have violated JEA's P-card procedures by possibly attempting to use a JEA P-card for a charge associated with a social website. This possible procedural violation was detected during internal monitoring of declined P-card charges.	We concluded JEA's procedures were not violated, as the P-card had been externally compromised. After notification to the bank, the card was cancelled and subsequently reissued.



II. D. 2.

Finance & Audit Committee Members – Self-Assessment Survey Questionnaire





March 2, 2017

SUBJECT:	FINANCE & AUDIT COMMIT QUESTIONNAIRE	TEE MEMBERS - SELF ASS	SESSMENT SURVEY
Purpose:	Information Only	Action Required	Advice/Direction
Issue: The Fir	nance & Audit Committee conc	lucts a self-assessment on an	annual basis.

Significance: Self-assessments are considered a best practice for Audit Committees and also for full Boards. Over 90% of the full Boards for publicly traded companies perform self-assessments.

Effect: To further enhance the effectiveness of the Committee Members by raising awareness and consistency of Board Committee best practices.

Cost or Benefit: No cost. See above for benefit.

Recommended Board action: JEA staff recommends the Committee Members complete the selfassessment process using the attached form. Completed forms will be submitted to the Director, Audit Services by the end of April for compiling and summarization. Results will be reported at the May 8, 2017 Finance & Audit Committee Meeting.

For additional information, contact: Steve Tuten, Director, Audit Services (904) 665-5206

Submitted by: PEM/ TEH/ SVT





2017 Finance and Audit Committee Annual Self-Assessment Questionnaire

		Satisfactory	Opportunity for Improvement	Comments
Cor	nmittee Composition			
1.	Qualified Committee Members are identified by sources other than management.			Enter your comments here
2.	Committee Members have appropriate qualifications to meet Committee objectives, including appropriate financial literacy.			Enter your comments here
3.	Committee has a sufficient number of Members to conduct its business.			Enter your comments here
4.	The Committee reviews its policy annually to determine whether its responsibilities are described adequately, and recommends changes to the Board for approval.			Enter your comments here
5.	New Committee Members participate in an orientation program to educate them on the company, their responsibilities, and the company's financial reporting and accounting practices.			Enter your comments here
Un	derstanding the Business and its Risks			
6.	The Committee considers, understands, and approves the management processes to effectively identify, assess and mitigate the organization's key risks.			Enter your comments here
7.	Management has an effective compliance and ethics program.			Enter your comments here
8.	Management has sufficient processes and controls to prevent and detect fraud.			Enter your comments here
Cor	nmittee Meeting Administration			
9.	The meeting agenda and materials are distributed enough in advance to allow Members enough time to study and understand the information.			Enter your comments here
10.	Committee meetings are conducted effectively, with sufficient time spent on business unit presentations, including significant or emerging issues.			Enter your comments here
11.	Meeting environment is conducive to Members feeling comfortable in challenging management and each other, as appropriate.			Enter your comments here
12.	Meetings are of sufficient duration.			Enter your comments here
13.	Committee Members regularly attend meetings.			Enter your comments here
14.	Committee Members are well-prepared for the meetings.			Enter your comments here
15.	Committee has sufficient opportunity to meet in separate private sessions with management, the internal auditors and the external auditors.			Enter your comments here
16.	The Committee maintains adequate minutes of each meeting.			Enter your comments here

		Satisfactory	Opportunity for Improvement	Comments		
17.	The Committee reports its proceedings and recommendations to the Board after each Committee meeting.			Enter your comments here		
Ove	Oversight of Financial Reporting					
18.	Members understand the company's financial results and how reported results compare to plan.			Enter your comments here		
19.	The Committee reviews the company's significant accounting policies.			Enter your comments here		
20.	The Committee oversees controls over financial reporting.			Enter your comments here		
21.	The Committee confirms that any material financial reporting weaknesses identified are adequately addressed.			Enter your comments here		
	ersight of Audit Functions					
22.	The Committee regularly reviews the adequacy of the internal audit function's charter, its audit plan, budget, and experience of its Director and Team.			Enter your comments here		
23.	Internal audit's reporting lines allow for significant issues to be brought to the attention of the Committee.			Enter your comments here		
24.	The Committee oversees the role of the external auditors from selection to termination, and has an effective process to evaluate the external auditors' qualifications and performance.			Enter your comments here		
25.	The Committee oversees the adequacy of the external auditors' plan.			Enter your comments here		
Self	Self-Assessment					
26.	An annual self-evaluation of the Committee is conducted and any significant matters that require follow-up are resolved and presented to the full Board.			Enter your comments here		

General Comments:

Enter your comments here

II. E.

Cyber Security Activities



February 27, 2017

II. E 3/13/2017 Return

to Agenda

SUBJECT:	CYBER SECURITY ACTIVITIES							
Purpose:	Information Only							
Issue: Cyber Security has become an important media topic after the political hacking that occurred this past year, as well as the hacking of the Ukraine Electric Grid.								
Significance: This presentation will provide some high-level information to the Board to assure Members that JEA is taking appropriate actions to manage and defend against cyber risks.								
Effect: Failure to properly protect JEA's assets and customers/employees personal information may result in fines, financial fraud, business disruption and/or reputational damage.								
Cost or Benefit: Risk Avoidance								
Recommende	d Board action: This agenda item is provided for information only; no action is required.							

For additional information, contact: Paul Cosgrave (904) 665-8601

Submitted by: PEM/PJC





Finance and Audit Committee Presentation March 13, 2017

II. E 3/13/2017

Return to Agenda

Cyber Security Risk Oversight and Critical Infrastructure Protection (CIP) Compliance



Political and Media Events are Heightening the Concern of a Major Cyber Attack Against the US Power Grid

The New York Times

Spy Agency Consensus Grows That Russia Hacked D.N.C.



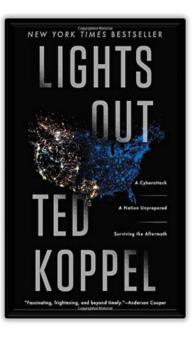


○CBS EVENING NEW!

Burlington Free Press

Russian hackers strike Burlington Electric with malware

Russian hacks into Ukraine power grids a sign of things to come for U.S.?



"There are two kinds of big companies in the U.S. There are those who've been hacked...and those who don't know they've been hacked."

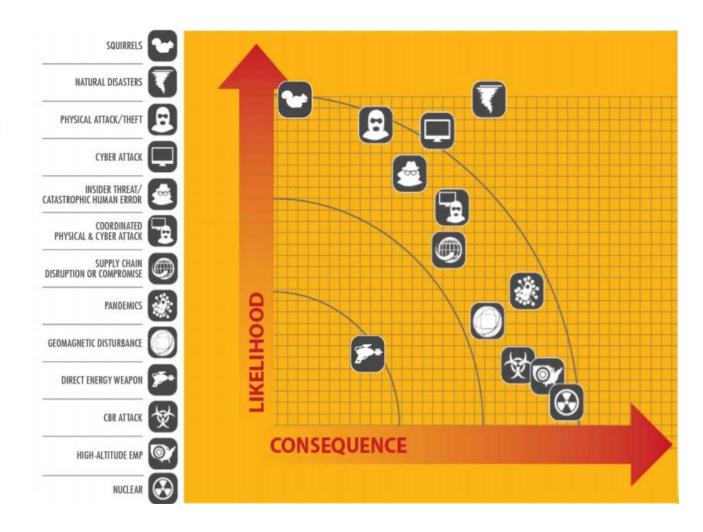
-James Comey, FBI Director



Is the Hype of a Major Cyber Security Attack Overblown?

"According to Marcus Sachs, CSO with the North American Electric **Reliability Corporation** (NERC), fears of a cyberattack are overblown. Sachs told RSA Conference attendees on Thursday that squirrels, birds and snakes are currently a bigger threat to the power grid than cyber adversaries." -Tom Spring, Threat Post Blog,

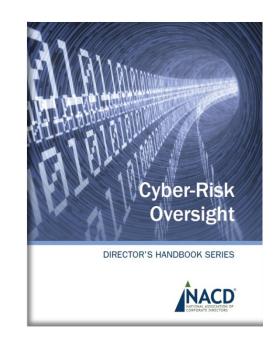
February 2/17/17





Five Key Steps Boards Should Take Regarding Cyber Security¹

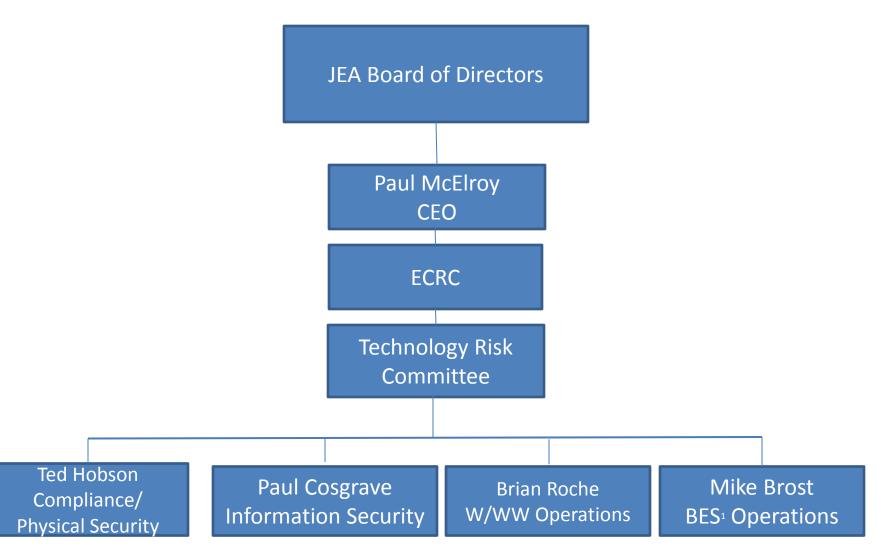
- 1. Directors need to understand and approach cyber security as an enterprise-wide risk management issue, not just an IT issue. (JEA has an ERM focus)
- 2. Directors should understand the legal implications of cyber risk as they relate to their company's specific circumstances. (JEA coordinates with OGC)
- 3. Boards should have adequate access to cyber security expertise and discussions about cyber-risk management should be given regular and adequate time on board meeting agendas. (1:1 discussions)
- 4. Directors should set the expectation that management will establish an enterprise-wide cyberrisk management framework with adequate staffing and budget. (ECRC Committees Plus 2 Dozen+ FTEs)
- 5. Board-management discussions about cyber risk should include identification of which risks to avoid, which to accept and which to mitigate or transfer through insurance, as well as specific plans associated with each approach.



¹Cyber-Risk Oversight, Director's Handbook Series, NACD, 2017



Cyber Security Risks are Managed as Part of the Overall Enterprise Compliance & Risk Committee



¹Bulk Electric Systems





<u>Risk</u>	<u>Corporate</u>	<u>CIP</u>
Loss or Alteration of Intellectual Property	\bigcirc	\odot
Sensitive Consumer or Employee Data Disclosure	\bigcirc	N/A
Online Service Denial	\bigcirc	\odot
Financial Fraud	\bigcirc	N/A
Electric Grid Disruption	N/A	\odot
 W/WW System Disruption¹ 	N/A	\odot

¹W/WW System Cyber Security Protection is not regulated to the same extent as electric.



Information Security Threats

Information Security Threats that will Dominate in 2017

- Supercharged connectivity and the Internet of Things (Threats)
- Crime-as-a-Service Crime syndicates take quantum leap (Ransomware)
- New regulations bring compliance risks
- Brand reputation and trust are a target





Financial Fraud (Ransomware) Became the Big New Threat in 2016

What is Ransomware?

- Malicious Software that allows a hacker to restrict access to an individual or company's vital information in some way, typically encryption of critical information.
- Payment in Bitcoins to release the encryption is demanded.
- Hackers have shifted their focus to businesses rather than individuals.
- The FBI estimates that losses due to ransomware topped \$1 Billion in 2016 and will continue to grow in 2017.

How does JEA protect against it?

- Strong controls for spear phishing detection and spam control, all suspicious emails or links are quarantined.
- Content control and filtering for limiting access for any malicious content, and preventing download of malicious content.
- Anti-Malware prevention on all end point devices.
- Intrusion Prevention System (IPS) at all entry points to JEA.
- Program for security patching for all end user systems.
- Strong Backup and Recovery process for all critical JEA data.
- End User education to spread awareness of cyber threats.



- Physical and cyber security industries join forces and threat intelligence sharing makes great strides (Fusion Center)
- Greater focus will be placed on peripheral devices. (IoT/HVAC)
 - Thumb-drives are a particular concern, usage is limited and must pass security scans
- While vulnerability exploits on Windows cool down as other platforms heat up and as machine learning accelerates social engineering attacks, JEA is focusing on employee education and limiting individuals with administrative access control
- JEA is participating in Community Service Cyber Security activities to help build customer confidence in JEA brand



- JEA chairs the Policy Sub-Committee of the Large Public Power Council (LPPC) Cyber Security Taskforce (CSTF)
- In 2016 the CSTF conducted surveys among the members on three important topics:
 - o Board Communication
 - o Cyber Liability Insurance
 - Background Screening Processes
- Regarding Board Communication, of 14 member firms responding to the survey, 10 had F&A Committees, 7 held discussions with those committees. The majority report in both closed and open sessions governed by State's Sunshine Laws.
- Regarding Cyber Insurance, a fairly new offering, 8 out of 18 firms that responded indicated that they had some form of cyber insurance. The amounts and what specifically was covered varied widely.
- Background screening is required by CIP regulations and all 17 respondents to this survey reported they have policies and procedures in place. JEA's policies were quite strong when compared to other utilities.

II. F.

CIP Compliance Update



March 2, 2017

II. F.

3/13/2017

Return

to Agenda

Energizing our community through high-value energy and water solutions. JEA is a premier

service provider, valued asset and vital partner in advancing our community.

SUBJECT:	CIP COMPLIANCE UPDAT	E						
Purpose:	Information Only	Action Required	Advice/Direction					
Issue: With threats from domestic and foreign terrorists, it is important that critical infrastructures are protected against a vast amount of potential issues.								
Significance: protect our res		a high-level overview of t	he systems JEA has in place to					
	to properly protect JEA's asso al fraud, business disruption a		yees personal information may result ge.					
Cost or Benef	it: Risk Avoidance							
Recommended Board action: This agenda item is provided for information only; no action is required.								
For additional information, contact: Ted Hobson, Chief Compliance Officer, (904) 665-7126								
Submitted by: PEM/TEH								
			Earn Customer Loyalty					

Safety
 Service
 Growth²
 Accountability

Integrity

2 Deliver Business

Excellence



Finance and Audit Committee Presentation II. F. Return 3/13/2017 to Agenda March 13, 2017

Critical Infrastructure Protection





Need for The Grid

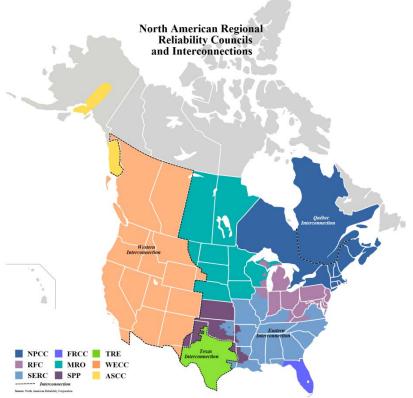
North American Interconnected Electric System (the Grid) is the largest machine in the world.

Benefits of Interconnection

- Significant reduction in cost
- Significant improvement in reliability

Risks of Interconnection

- Multiple Organizations coordinate and control
- Heavily dependent on computers for control and operations





Blackouts

Despite all precautions and best designs, blackouts or cascading outages happen.

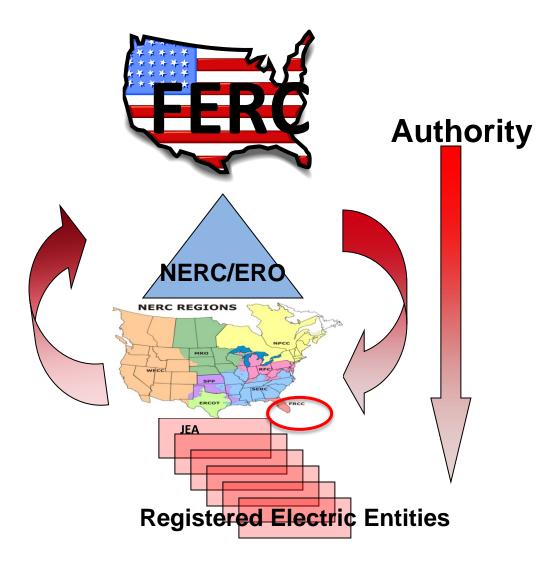
- 1. August 2003, North East (Approx. 50 Million Customers Impacted)
- 2. February 2008, South Florida (Approx. 4 Million Customers Impacted)
- 3. Ukraine December, 2015 (Approx. 250k Customers Impacted)

e New Hork Eimes





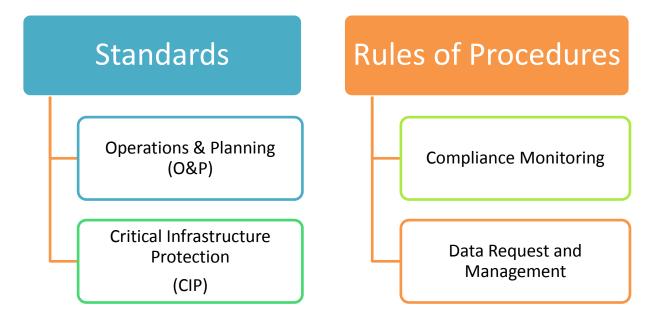
NERC - ERO



- EPAct 2005 mandated creation of the North American Electric Reliability Organization(NERC), and gave the Federal Energy Regulatory Commission (FERC) oversight with significant penalty authority
- NERC can delegate some authority to an approved Regional Entity (RE) also referred to as Compliance Enforcement Agency (CEA)
- There are 8 RE's in the US
- JEA is monitored by Florida Reliability Coordinating Council Inc. (FRCC)



NERC Reliability Standards



Standards and Rules of Procedures (RoP) must be approved by FERC



NERC CEA Monitoring Methods

- Audits (every 3 years)
- Spot Checks (Random)
- Compliance Investigations
- Complaints
- Self-Reports
- Self-Certifications (Annual)
- Periodic Data Submittals
- Compliance Assessments for Events and Disturbances



CIP Implementation Timelines

Recognizing the <u>increasing risk of cyber</u> <u>security in operations technology</u>, FERC approved Critical Infrastructure Protection (CIP) standards on January 18, 2008.

- July 1, 2008 CIP Version 1 in effect
- April 1, 2010 CIP Version 3 in effect
- July 1, 2016 CIP Version 5 in effect



CIP – Management Controls

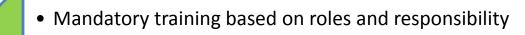
 Assign a Senior Manager who has Responsibility and Authority Policy approved by Senior Manager who ensures 	CIP-002	 Identify Risks for all Bulk Electric System assets Classify each as HIGH, MEDIUM or LOW 	
compliance with CIP	CIP-003	Authority	

JEA CIP Assets								
High	Medium	Low						
125 Requirements	105 Requirements	22 Requirements						
2 Control Centers	3 Substations	42 Substitutions 5 Generating Plants						



004 Training

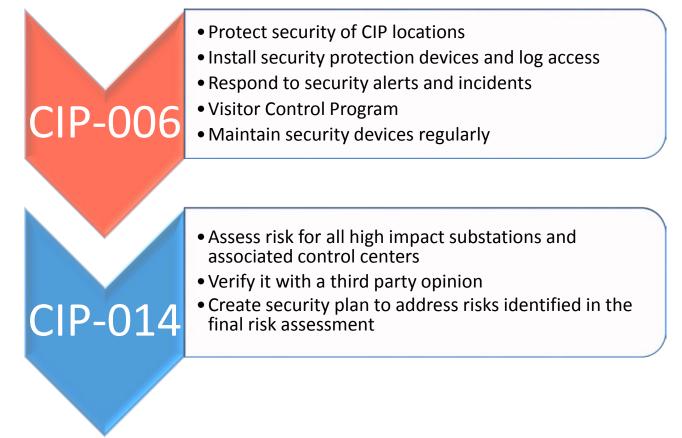
CIP – Personnel Management



- Annual training refresher
- Mandatory background screening with criminal flag check
- Refresh background screening every seven years
 - Document, approve and control access
 - Verify permissions
- 004 Access Revoke access within 24 hours from time of termination

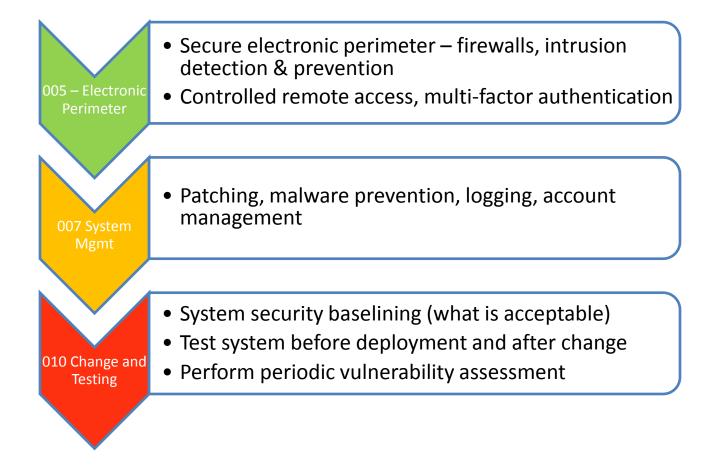


CIP – Physical Security



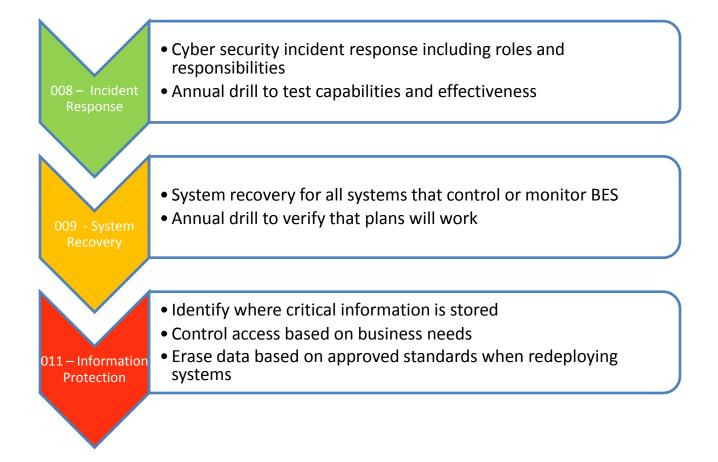


CIP – Technical Controls





Business Continuity & Information

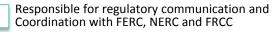




CIP Roles At JEA

Business Units

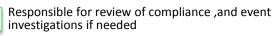
Independent Monitoring group responsible for Compliance Monitoring and Reporting to regulatory authority



Responsible for Inputs to Standard Drafting

Responsible for internal communications/updates and interpretation of standards

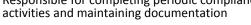
Responsible for annual Training & drills	
coordination with Business Unit Subject M	atter
Experts	

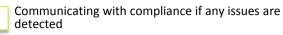


Also responsible for other regulatory activities such as Identity Theft regulations (FACTA), TCPA (Rob calls), HIPAA (Health Information Protection), PCI (Purchase Card Data Security) etc.



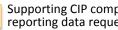
Responsible for completing periodic compliance



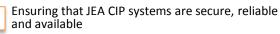




Mitigating any gaps and vulnerabilities



Supporting CIP compliance for any regulatory reporting data requests





Achievements & Challenges

<u>Achievements</u>

JEA has been the only utility in the Florida Region to complete a CIP audit with no findings. Very few utilities in the nation have been able to achieve a similar result.

Challenges

- CIP Audit 2017 July 10 -14
- NERC GridEx November 15-17

II. G.

Ethics Officer Report



JEA Ethics Officer Report March 13, 2017

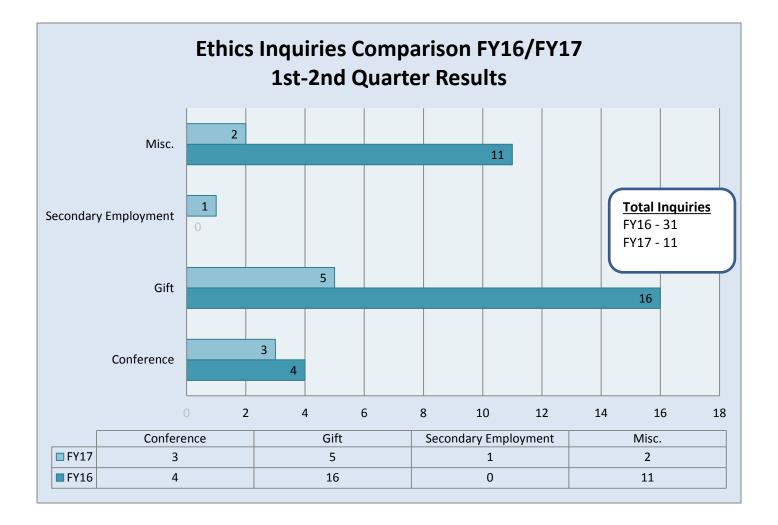
Creating an Ethical Culture

JEA will conduct its business fairly, impartially, in an ethical and proper manner, and in full compliance with all applicable laws and regulations





FY16/17 Comparison





FY17 Gift Registry





Business Ethics Update and What's Next

- Nepotism Project started in December 2016 and completed February 2017.
 - This review was to ensure compliance with our Nepotism Procedure; specifically, Emerging Workforce Strategies Procedure EWS A0210 002, "Nepotism", originated January 1, 1982 and most recently updated on March 10, 2016.
 - In December, 310 employees had a nepotism flag, as well as their relationship's name(s), in Oracle.
 - Ethics reviewed all incomplete employee records to obtain the documentation necessary to clear the nepotism flag on the records.
- Ethics Officer attended the Utilities & Energy Compliance & Ethics Conference conducted by Society of Corporate Compliance and Ethics (SCEE) on February 19-22, 2017 in Washington, DC.
- On March 1, 2017, JEA Business Ethics Training will begin.
 - March is National Ethics Awareness Month, and JEA is committed to upholding the highest level of ethics and integrity.
 - In recognition of National Ethics Awareness Month, all JEA employees will complete the Business Ethics Refresher e-Learning by March 31st.. The focus this year will be on Secondary Employment attestation.



II. H.

JEA Energy Market Risk Management Policy Report



March 13, 2017

SUBJECT:	JEA ENERGY MARKET RISK MANAGEMENT POLICY REPORT

 Purpose:
 Information Only
 Action Required
 Advice/Direction

Issue: The JEA Board approved the Energy Market Risk Management (EMRM) Policy in March 2014. The Policy was developed to codify the risk, governance, limits, and criteria associated with managing energy market exposure, and to comply with requirements of the Dodd-Frank Wall Street Reform and Consumer Protection Act. The reporting section of the Policy requires a quarterly report on JEA's financial and physical fuel and power transactions. This report includes physical transactions greater than one year and all financial transactions.

Significance: High. The Policy governs JEA's wholesale energy market risk management and allows JEA to execute certain physical and financial transactions. The attached report is provided to the Board Finance and Audit Committee and satisfies the requirements of the reporting section of the EMRM Policy.

Effect: Financial and physical transactions allow the JEA Fuels group to manage the risks inherent in the wholesale fuel and energy markets. The attached Finance and Audit Committee report summarizes JEA's current positions.

Cost or Benefit: The costs of financial transactions are reflected in comparison to market indices. The benefits include establishment of a stable fuel price for the future.

Recommended Board action: None required. The report is required by the EMRM Policy and is provided as information.

For additional information, contact: Steve McInall, 665-4309

Submitted by: PEM/ MJB/ SGM



II. H. 3/13/2017 Return to Agenda

Energy Market Risk Management: Physical and Financial Positions

Summary as of 2/8/2017							
Projected FY17 Expense (Budget = \$412M)	\$448M	(]					
Projected Fuel Fund Ending Balance FY17	\$128M	0					
EMRM Compliance	Yes	Ü					
Counterparty Credit Limit Exceptions	No	Ü					
Any Issues of Concern	No	٢					

Table 1: Physical Counterparties (Contracts One Year or Greater) as of 2/1/2017

				Remaining	Remaining
Generating Unit	Fuel Type	Supplier/ Counterparty	Contract Type	Contract Value	Contract Term
SJRPP	Coal	Coal Marketing Company	Index w/ Collar	\$ 8,924,633	1 month
SJRPP	Coal	Coal Marketing Company	Fixed Price	\$ 80,260,060	9 months
Scherer 4	Coal	Alpha- Eagle Butte	Fixed Price	\$ 61,853,589	11 months
Scherer 4	Coal	Coal Sales, LLC	Fixed Price	\$ 34,031,201	11 months
Scherer 4	Coal	Arch Coal Sales Company, Inc	Fixed Price	\$ 21,767,123	11 months
Scherer 4	Coal	FY18 Contura Eagle Butte	Fixed Price	\$ 44,373,196	12 months
Scherer 4	Coal	FY19 Contura Eagle Butte	Fixed Price	\$ 46,874,729	12 months
NG Fleet	Natural Gas	Shell Energy	Index w/Fixed Price Option	\$ 289,438,290	4.2 years

Table 2: Financial Positions as of 2/1/2017

Year	Commodity	Physical Volume (mmBtu)	Hedged Volume (mmBtu)	Percent Hedged	Unhedged Cost (\$/mmBtu)	Hedge Type	Hedge Price	Mark-to- Market Value	Counter Party
FY17	Natural Gas	27,868,900	4,200,000	15.1%	\$3.27	Collar	\$2.93/\$4.50	\$583,948	Wells Fargo
FY18	Natural Gas	33,154,400	-	0.0%	\$3.19	-	-	-	-
FY19	Natural Gas	29,710,700	-	0.0%	\$2.92	-	-	-	-

Table 3: Fuel Procurement as of 2/8/2017

Fuel Type	Coal	Petcoke	Oil/Diesel	Purchased Power	Natural Gas	Renewables	Nuclear	
FY17 Remaining								
Expected Spend (\$)	123.0M	16.0M	0.3M	18.0M	104.2M	6.6M		
% Procured	71%	43%	100%	0%	48%	100%		
% Hedged	71%	9%	100%	0%	16%	100%		
FY18								
Expected Spend (\$)	177.4M	54.3M	1.3M	27.6M	109.2M	12.8M		
% Procured	18%	10%	100%	0%	67%	100%		
% Hedged	18%	10%	100%	0%	0%	100%		
FY19								
Expected Spend (\$)	186.0M	52.6M	2.7M	24.4M	89.4M	11.9M	3.6M	
% Procured	17%	10%	100%	0%	75%	100%	100%	
% Hedged	17%	10%	100%	0%	0%	100%	100%	

Supporting Notes:

- Renewable and nuclear power purchase agreements are not included in Table 1
- Natural Gas Transportation is 100% fixed capacity and price
- Solid fuel procurement quarterly at Northside; longer term 2017/18 for SJRPP and Scherer
- FY17 Energy Mix: 43% Gas, 48% Solid Fuel, 9% Purchase Power expected (based on MWH)
- In Table 3, the procured percent relates to inventory on hand, or contracted and the percent hedged is inventory on hand or contracted with fixed pricing or financial hedges.
- The FY17 projected fuel fund ending balance has decreased from budget because of increases in fuel prices (\$50M) and lowering of the fuel rate from \$36.75 to \$32.50 on 12/2016 (\$44M).

II. I. 1.

Resolution Determining the Sufficiency of Revenues – St. Johns River Power Park





March 13, 2017

SUBJECT:	RESOLUTION DETERMINING THE SUFFICIENCY OF REVENUES - ST. JOHNS RIVER POWER PARK

Purpose: Information Only Action Required Advice/Direction

Issue: An annual requirement under the St. Johns River Power Park Bond Resolution (the "Bond Resolution") for JEA to determine that for the upcoming fiscal year the Electric System's revenues will be sufficient to make all required payments under the Bond Resolution.

Significance: High. The completion of this requirement is needed to be in compliance with the Bond Resolution.

Effect: The ability of the Electric System to make all required payments under the Bond Resolution.

Cost or Benefit: Failure to make the determination could result in revenues that are insufficient to meet all the requirements under the Bond Resolution, potentially affecting both JEA's credit ratings and reputation in the bond market.

Recommended Board action: JEA staff recommends the Finance and Audit Committee recommend Board approval and adoption of Resolution No. 2017-27 determining that the estimated revenues for the Fiscal Year ending September 30, 2018, will be sufficient for their intended purposes.

For additional information, contact: Joe Orfano, Treasurer, 665-4541

Submitted by: PEM/MHD/JEO/LMB



II. I. 1. 3/13/2017

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INTER-OFFICE MEMORANDUM

March 13, 2017

SUBJECT: RESOLUTION DETERMINING THE SUFFICIENCY OF REVENUES – ST. JOHNS RIVER POWER PARK

FROM: Paul E. McElroy, Managing Director/CEO

TO: JEA Finance and Audit Committee

Kelly Flanagan, Chair Tom Petway Ed Burr Husein Cumber

BACKGROUND:

JEA's St. Johns River Power Park System Bond Resolution contains various covenants that JEA is obligated to its bondholders to perform. Two of such covenants require JEA to make an annual determination by resolution, at least six months prior to the beginning of the next fiscal year, that the estimated revenues for the next fiscal year will be sufficient to cover the required expenditures for such fiscal year.

DISCUSSION:

JEA staff has made the determination required.

RECOMMENDATION:

JEA staff recommends the Finance and Audit Committee recommend Board approval and adoption of Resolution No. 2017-27 determining that the estimated revenues for the Fiscal Year ending September 30, 2018, will be sufficient for their intended purposes.

Paul E. McElroy, Managing Director/CEO

PEM/MHD/JEO/LMB

Resolution No. 2017-27

A RESOLUTION MAKING A DETERMINATION AS TO THE SUFFICIENCY OF ESTIMATED REVENUES OF THE ELECTRIC SYSTEM TO PROVIDE FOR THE PAYMENTS AND OTHER REQUIREMENTS OF SECTION 721 AND SECTION 713 OF JEA ST. JOHNS RIVER POWER PARK SYSTEM REVENUE BOND RESOLUTION

WHEREAS, Sections 721 and 713 of JEA St. Johns River Power Park System Revenue Bond Resolution (the "Resolution") require that JEA no less than six months prior to the beginning of each fiscal year complete a review of its financial condition for the purpose of estimating whether the rates, fees, charges and other income and receipts from the operation of the Electric System, including investment income included as revenues, for such fiscal year, will be sufficient to provide all of the payments and meet all other requirements in accordance with Section 721 and Section 713 of the Resolution; and

WHEREAS, such a review of JEA's financial condition has been made resulting in a determination that the estimated rates, fees, charges and other income and receipts from the operation of the Electric System, including investment income included as revenues, during the Fiscal Year ending September 30, 2018, will be sufficient to provide all of the payments and meet all other requirements for the Fiscal Year ending September 30, 2018 in accordance with Section 721 and Section 713 of the Resolution now, therefore,

BE IT RESOLVED by JEA that a determination has been made that the estimated rates, fees, charges and other income and receipts from the operation of the Electric System, including investment income included as revenues, during the Fiscal Year ending September 30, 2018, will be sufficient to provide all of the payments and meet all other requirements for the Fiscal Year ending September 30, 2018 in accordance with Section 721 and Section 713 of the Resolution.

JEA Chair

Form Approved:

Assistant General Counsel

II. I. 2.

Recap of Recent JEA Electric System Advance Fixed Rate Debt Refunding Delegated Transactions





February 27, 2017

SUBJECT: RECAP OF RECENT JEA ELECTRIC SYSTEM ADVANCE FIXED RATE DEBT REFUNDING DELEGATED TRANSACTIONS

Purpose: 🛛 Information Only 🗌 Action Required 🗌 Advice/Direction

Issue: On November 15, 2016, the Board adopted Resolution No. 2016-17 and 2016-18, relating to the Electric System Senior and Subordinated Revenue Bonds, respectively.

Significance: The following resolutions provided the Managing Director/CEO the authorization to price and execute a fixed rate advance refunding transaction within the stated parameters.

Effect: Pursuant to Resolution No. 2016-17 and 2016-18, JEA staff priced approximately \$18.7 million in senior and \$71.7 million in subordinated fixed rate bonds on January 31, 2017. The Managing Director/CEO executed the bond purchase agreement for the Electric System Revenue Bonds, Series Three 2017A and Subordinated 2017 Series A on February 1, 2017.

Cost or Benefit: The Electric System advance refunding produced \$4.5 million of present value savings and generates approximately \$1.1 million of average annual debt service savings.

Recommended Board action: No Board action is required. For information only.

For additional information, contact: Joe Orfano, Treasurer, 665-4541

Submitted by: PEM/MHD/JEO/OCD



II. I. 2. 3/13/2017 Return to Agenda



INTER-OFFICE MEMORANDUM

February 27, 2017

SUBJECT:RECAP OF RECENT JEA ELECTRIC SYSTEM ADVANCE FIXED
RATE DEBT REFUNDING DELEGATED TRANSACTIONS

FROM: Paul E. McElroy, Managing Director/CEO

TO: JEA Finance and Audit Committee

Kelly Flanagan, Chair Tom Petway Ed Burr Husein Cumber

BACKGROUND:

On November 15, 2016, the Board adopted Resolution No. 2016-17 and 2016-18, relating to the Electric System Senior and Subordinated Revenue Bonds, respectively, which provided the Managing Director/CEO the authorization to price and execute a fixed rate advance refunding bond transaction within stated parameters. The resolutions, in addition to providing parameters, also (i) approved the form of and authorized the execution of various legal documents that were prepared by counsel in connection with the issuance of the authorized bonds; and (ii) provided that the bonds must be sold no later than June 30, 2017.

DISCUSSION:

Pursuant to Resolution No. 2016-17 and 2016-18, JEA staff priced approximately \$18.7 million in senior and \$71.7 million in subordinated fixed rate bonds on January 31, 2017. Bond refunding proceeds were utilized to redeem approximately \$19.0 million of senior and \$68.1 million of subordinated fixed rate bonds. The Managing Director/CEO executed the bond purchase agreement for the Electric System Revenue Bonds, Series Three 2017A and Subordinated 2017 Series A on February 1, 2017.

The attached presentation shows the actual results as compared to the delegated parameters for the Electric System Revenue Bonds, Series Three 2017A and Subordinated 2017 Series A.

J.P. Morgan served as senior manager, Nixon Peabody LLP served as JEA's bond counsel and Public Financial Management served as JEA's financial advisor for the refunding transaction.

RECOMMENDATION:

No Board action is required. For information only .

Paul E. McElroy, Managing Director/CEO

PEM/MHD/JEO/OCD

 II. I. 2.
 Return

 3/13/2017
 to Agenda



FY17 BOND REFUNDING ACTIVITY AND RESULTS

JEA Finance and Audit Committee Meeting

March 13, 2017

FINANCING TEAM

JEA

Joe Orfano, Treasurer Chris Cicero, Bond Compliance Specialist Lori Boynton , Bond Compliance Specialist Robert Hahn, Bond Administration Specialist Oliver Domingo, Debt Financial Analyst Juli Crawford, Manager Financial Planning & Rates Tucker Mills, Financial Associate

Underwriting Group:

J.P. Morgan Citigroup Goldman, Sachs & Co. RBC Capital Markets US Bancorp Wells Fargo Securities

Bond Counsel:

Nixon Peabody, LLP

Financial Adviser:

Public Financial Management, Inc.



SUMMARY OF REFUNDING RESULTS

Series Three 2017A and Sub 2017 Series A (2/14/17)

- Total bond par amount: \$90.4 million
- Gross savings: \$9.5 million
- Present value savings: \$4.5 million (5.1%)

Note: the advance refunding delegation resolution approved in November eliminated the 7.50% minimum NPV parameter



ELECTRIC SYSTEM RESOLUTION PARAMETERS

	Delegated Parameters	2017A Senior	2017A Subordinated
Par Amount	< \$150.0m	\$18.7m	\$71.7m
True Interest Cost	< 3%	1.466%	1.431%
Weighted Average Life	5.792 (Sen) & 5.953 (Sub)	2.631	1.092
Final Maturity Date	Not later than 10/1/19	10/1/19	10/1/19



FY17 ANTICIPATED REFUNDING TRANSACTION SCHEDULE

System	Туре	Closing Date	Estimated Par Amount
Water & Sewer	Current	4 th Quarter FY17	\$152.0m
Electric	Current	4 th Quarter FY17	\$152.0m
SJRPP	Current	4 th Quarter FY17	\$78.0m



II. I. 3.

Electric System and Water and Sewer System Reserve Fund Quarterly Report

II. I. 3. Return 3/13/2017 to Agenda



February 22, 2017

SUBJECT:	ELECTRIC SYSTEM AND WATER AND SEWER SYSTEM RESERVE FUND
SUBJECT.	QUARTERLY REPORT

Purpose: Information Only Action Required Advice/Direction

Issue: Electric System and Water and Sewer System Reserve Fund Quarterly Report as of December 31, 2016. This report is provided for transparency into JEA's reserve fund accounts and various cash balances.

Significance: High. JEA's liquidity position is an important balance between operating security and flexibility, financial metrics, and carrying cost of cash.

Effect: JEA operational needs, bond resolution requirements, and credit ratings.

Cost or Benefit: JEA's reserves are an important component of operating security and flexibility, a critical credit ratings factor.

Recommended Board action: No action required; provided for information only.

For additional information, contact: Joe Orfano, Treasurer, 665-4541

Submitted by: PEM/MHD/JEO/BHG



II. I. 3. 3/13/2017 Return to Agenda



INTER-OFFICE MEMORANDUM

February 22, 2017

SUBJECT: ELECTRIC SYSTEM AND WATER AND SEWER SYSTEM RESERVE FUND QUARTERLY REPORT

FROM: Paul E. McElroy, Managing Director/CEO

TO: JEA Finance and Audit Committee

Kelly Flanagan, Chair Tom Petway Ed Burr Husein Cumber

BACKGROUND:

At the May 7, 2012 Finance and Audit Committee meeting, JEA staff presented schedules reflecting historical and projected activity in JEA's Electric System and Water and Sewer System unrestricted and restricted fund balances. Many of these reserves are required under the respective System's bond resolutions or under Board approved policies such as Pricing Policy or Debt Management Policy. JEA staff also stated that these schedules would be provided to the JEA Board on a quarterly basis beginning in August 2012.

DISCUSSION:

Attached are the reserve fund schedules referenced above for the period ending December 31, 2016.

RECOMMENDATION:

No action required; provided for information only.

Paul E. McElroy, Managing Director/CEO

PEM/MHD/JEO/BHG

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Electric System and Water & Sewer System Reserve and Fund Balances (1)

For the Fiscal Quarter Ending December 31, 2016 (In Thousands of Dollars)

	F	iscal Year		Fiscal Year		Fiscal Year		Fiscal Year		Fiscal Year	Detail
Electric System	_	FY 2013		FY 2014		FY 2015		FY 2016		FY 2017	Page #
Unrestricted											
Operations/Revenue Fund	\$	46,588	Ś	43,178	\$	46,624	Ś	56,665	\$	44,924	
Debt Management Strategy Reserve	7	-	*	-	7	-	7	-	7	-	3
Self Insurance Reserve Fund											
Property		10,000		10,000		10,000		10,000		10,000	4
Employee health insurance		15,914		10,749		10,937		11,179		11,179	5
Rate Stabilization				-		-					
• Fuel		108,289		105,457		150,742		180,115		127,960	6
DSM/conservation		3,891		3,570		2,886		3,515		3,235	7
Environmental		10,023		16,639		23,430		29,975		35,950	8
Debt Management		42,126		42,126		42,126		42,126		29,884	9
Non-Fuel Purchased Power		-		12,000		38,000		34,400		26,194	10
Environmental		18,662		18,662		18,662		18,556		18,556	11
Customer Deposits		44,882		42,688		42,389		41,084		41,863	12
Total Unrestricted		300,375		305,069		385,796		427,615		349,744	-
Days of Cash on Hand (2)		172		166		225		270		212	
Restricted											
Debt Service Funds (Sinking Funds)		101,305		120,458		134,927		136,232		168,025	13
Debt Service Reserve Funds										-	15
Renewal and Replacement Funds/OCO (3)		64,841		64,841		64,595 145,711		60,582		60,582 173,665	
Construction Funds		140,486 5,184		146,910 42		145,711		192,179		175,005	15 16
Total Restricted		311,816		332,251		345,233		388,993		402,272	- 10
		511,810		552,251		545,255		300,993		402,272	-
Total Electric System	\$	612,191	\$	637,320	\$	731,029	\$	816,608	\$	752,016	:
Water and Sewer System											I
Unrestricted											
Operations/Revenue Fund	\$	5,886	\$	9,227	\$	22,588	\$	42,948	\$	46,251	
Debt Management Strategy Reserve		304		304		-		-		-	17
Rate Stabilization											
Debt Management		20,290		20,291		20,290		20,290		14,209	18
Environmental								1,699		1,497	19
Customer Deposit		13,860		12,787		13,255		13,910		13,911	20
Total Unrestricted		40,340		42,609		56,133		78,847		75,868	-
Days of Cash on Hand (2)		395		438		466		528		420	
Restricted											
Debt Service Funds (Sinking Funds)		80,317		75,019		67,720		65,410		82,870	21
Debt Service Reserve Funds		119,915		116,829		108,849		108,086		107,488	22
Renewal and Replacement Funds		,,==0		-,		, 0				,	
 R&R/OCO (4) 		78,689		59,295		37,337		76,020		48,660	23
Capacity Fees/State Revolving Loans		60,360		76,887		90,912		103,411		75,921	24
Environmental		(9,857)		5,299		19,245		2,659		294	25
Construction Funds		2,305		326		664		152		-	26
Total Restricted		331,729		333,655		324,727		355,738		315,233	• ••
T-t-114/ster 0. Course Cost	ć	272.000	ć	276.261	ć	200.000	ć	424 505	ć	204.405	-
Total Water & Sewer System	\$	372,069	\$	376,264	\$	380,860	\$	434,585	\$	391,101	-

(1) This report does not include Scherer, SJRPP, DES or funds held on behalf of the City of Jacksonville.

(2) Days of Cash on Hand includes R&R Fund in the cash balances, and includes the Contribution to the City of Jacksonville General Fund with the Operating Expenses net of Depreciation.

(3) Balance includes \$47,000 of Electric System Renewal and Replacement Reserve for MADS calculation.

(4) Balance includes \$20,000 of Water & Sewer System Renewal and Replacement Reserve for MADS calculation.

Funds Established Per the Bond Resolutions

Fund/Account Description	Electric System	Water and Sewer System
Revenue Fund	Net Revenues (i.e. Revenues minus Cost of Operation and Maintenance), pledged to bondholders, balance available for any lawful purpose after other required payments under the bond resolution have been made.	Pledged to bondholders; balance available for any lawful purpose after other required payments under the bond resolution have been made, however, revenues representing impact fees may only be used to finance costs of expanding the system or on the debt service on bonds issued for such expansion purposes.
Rate Stabilization Fund	Not pledged to bondholders; available for any lawful purpose.	Pledged to bondholders; able to transfer to any other fund or account established under the resolution or use to redeem Bonds.
Subordinated Rate Stabilization Fund	Pledged to bondholders; available for any lawful purpose.	Pledged to bondholders; available for any lawful purpose.
Debt Service Account	Pledged to bondholders; used to pay debt service on bonds.	Pledged to bondholders; used to pay debt service on bonds.
Debt Service Reserve Account	Pledged to bondholders; used to pay debt service on bonds in the event revenues were insufficient to make such payments.	Pledged to bondholders; used to pay debt service on bonds in the event revenues were insufficient to make such payments.
Renewal and Replacement Fund	Not pledged to bondholders but required amounts deposited into this Fund pursuant to the bond resolution are limited as to what they can be spent on (e.g. capital expenditures and, bond redemptions).	Pledged to bondholders; but required amounts deposited into this Fund pursuant to the bond resolution are limited as to what they can be spent on (e.g. capital expenditures and, bond redemptions).
Construction Fund	Pledged to bondholders; applied to the payment of costs of the system.	Pledged to bondholders; applied to the payment of costs of the system.
Subordinated Construction Fund	Pledged to bondholders; applied to the payment of costs of the system	Pledged to bondholders; applied to the payment of costs of the system
Construction Fund - Construction Reserve Account	Pledged to bondholders; applied to fund downgraded reserve fund sureties.	Pledged to bondholders; applied to fund downgraded debt service reserve fund sureties.
General Reserve Fund	Not pledged to bondholders; available for any lawful purpose.	n/a

Regardless of whether the Funds/Accounts are designated as pledged, in the event that monies in the Debt Service Account are insufficient to pay debt service on the bonds, pursuant to the respective bond resolutions, amounts in the various Funds/Accounts are required to be transferred to the respective Debt Service Accounts and used to pay debt service.

Electric System Debt Management Reserve

For the Fiscal Quarter Ending December 31, 2016

Reserve/Fund Authorization: Debt Management Policy

Metric: One-half percent of the par amount of outstanding variable debt (adjusted for variable to fixed rate long term swaps). Capped at 3% of the par amount of outstanding variable debt

Definitions and Goals: For the period FY 04 through FY 09, an annual budgeted reserve contribution for variable rate debt was made. The calculation was based upon one half percent of the par amount of outstanding variable rate debt (adjusted for variable rate to fixed rate long term swaps). The budget reserve was capped at three percent of the par amount of the outstanding variable rate debt. The reserve can be used for any lawful purpose including debt service, debt repayment, and capital outlay and must be approved in writing by the CEO.

	Act	tual as of	12/31/2016			Full Year					Projec	tion		
	Curre			2017		2017	Prior							
(In Thousands)	Quar	ter	Year -to-Date	Foreca	ast	Budget	Acti	ual	<u>20:</u>	<u>18</u>	<u>201</u>	<u>9</u>	<u>2</u>	2020
Opening Balance	\$	-	\$-	\$	-	N/A	\$	-	\$	-	\$	-	\$	-
Additions:														
Contributions						N/A		-						
			-	. <u> </u>		-					-		<u> </u>	
Sub-total	Ş	-	Ş -	Ş	-	Ş -	Ş	-	Ş	-	Ş	-	Ş	-
Withdrawals					-	N/A		-						
Sub-total	\$	-	\$ -	\$		\$ -	\$		\$	-	\$	-	\$	-
Ending Balance	\$	-	\$ -	\$	-	N/A	\$	-	\$	-	\$	-	\$	-

					Histo	orical							Stati	istical		
		<u>2012</u>		<u>2013</u>	<u>2</u> (014		<u>2015</u>	2	2016	Low	N	/ledian		Mean	High
Opening Balance Additions: Contributions	\$	12,257	\$	12,257	<u>\$</u> -	-	\$		\$		\$ -	\$	-	\$	4,903	\$ 12,257 -
Sub-total Withdrawals	\$	-	\$	- 12,257	\$		\$	-	\$	-	- - -		- - 6,129 -		- - 6,129 -	- - 12,257 -
Sub-total Ending balance	\$ \$	- 12,257	\$ \$	12,257	\$ \$	-	\$ \$	-	\$ \$	-	\$ -	\$	-	\$	- 2,451	\$ - 12,257

Observations:

• This reserve fund discontinued contributions in FY 2009 due to adoption of new policy. Reserve activity reflected in RSF - Debt Management for that year.

• A portion of this reserve was used to pay on interest rate swap terminations in connection with a refunding of variable rate debt in February 2013, and the remainder was used

in Sept 2013 for a defeasance.

Electric System Self Insurance - Property

For the Fiscal Quarter Ending December 31, 2016

Reserve/Fund Authorization: Budget Appropriation

Metric: Budgeted Deposit = \$10 million

Definitions and Goals: JEA's self-insurance fund is for catastrophic damage to JEA's electric lines (transmission and distribution) caused by the perils of hurricanes, tornadoes, and ice storms. This fund was established in October, 1992, as an alternative to JEA's procurement of commercial property insurance.

		Actual as of	12/31/	2016			Full Ye	ear				Pr	ojection	
	C	Current				2017	201	7	Pr	ior Year				
(In Thousands)	С	luarter	Yea	r -to-Date	F	orecast	Budg	et		Actual	<u>2018</u>		<u>2019</u>	<u>2020</u>
Opening Balance	\$	10,000	\$	10,000	\$	10,000	N/A	4	\$	10,000	\$ 10,000	\$	10,000	\$ 10,000
Additions:											 			
Reserve Contribution							N/#	Ą		-				
Sub-total	\$		\$		\$		\$	-	\$		\$ 	\$		\$
Deductions:							-				 			
Reserve Withdrawal														
							N/#	A .						
Sub-total	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -	\$	-	\$ -
Ending Balance	\$	10,000	\$	10,000	\$	10,000	N/#	1	\$	10,000	\$ 10,000	\$	10,000	\$ 10,000

					His	storical							Stati	istical		
		<u>2012</u>		<u>2013</u>		<u>2014</u>		<u>2015</u>		<u>2016</u>	Low	Ν	/ledian		Mean	High
Opening Balance Additions:	\$	10,000	\$	10,000	\$	10,000	\$	10,000	\$	10,000	\$ 10,000	\$	10,000	\$	10,000	\$ 10,000
Reserve Contribution					_		_		_		-		-		-	-
Sub-total Deductions: Reserve Withdrawal	\$	-	\$	-	\$	-	\$	-	\$	-	_		_		_	_
Reserve Withdrawar											-		-		-	-
Sub-total Ending balance	\$ \$	- 10,000	\$ 10,000	\$	10,000	\$	10,000	\$ 10,000								

Electric System Self Insurance - Employee Health Insurance

For the Fiscal Quarter Ending December 31, 2016

Reserve/Fund Authorization: Florida Statute for self insured government plans

Metric: An actuary calculates amount annually

Definitions and Goals: This reserve fund is a requirement under Florida Statute 112.08 that requires self insured government plans to have enough money in a reserve fund to cover the Incurred But Not Reimbursed (IBNR) claims and a 60 day surplus of claims. The IBNR claims are claims that would still need to be paid if the company went back to a fully insured plan or dropped coverage all together. An actuary calculates this amount annually.

		Actual as of	12/31/	2016			Full Yea	ır				F	Projection	
	C	Current				2017	2017		Pr	rior Year				
(In Thousands)	С	Quarter	Yea	r -to-Date	F	orecast	Budge	t		Actual	<u>2018</u>		<u>2019</u>	<u>2020</u>
Opening Balance	\$	11,179	\$	11,179	\$	11,179	N/A		\$	10,937	\$ 11,179	\$	11,179	\$ 11,179
Additions:											 			
Employee Contributions		1,343		1,343		8,058	N/A			5,460	8,703		9,399	10,151
Retiree & Other Contributions		1,754		1,754		6,402				5,694	6,914		7,467	8,065
Employer Contributions		4,899		4,899		23,756				24,231	25,656		27,709	29,925
Sub-total	\$	7,996	\$	7,996	\$	38,216	\$	-	\$	35,385	\$ 41,273	\$	44,575	\$ 48,141
Deductions:														
Payments for Claims		7,439		7,439		35,722	N/A			32,946	38,580		41,666	44,999
Actuary & Other Payments		665		665		2,494				2,197	2,693		2,909	3,141
Sub-total	\$	8,104	\$	8,104	\$	38,216	\$	-	\$	35,143	\$ 41,273	\$	44,575	\$ 48,141
Ending Balance	\$	11,071	\$	11,071	\$	11,179	N/A		\$	11,179	\$ 11,179	\$	11,179	\$ 11,179

			His	storical					Sta	tistical		
(In Thousands)	<u>2012</u>	<u>2013</u>		<u>2014</u>	<u>2015</u>	<u>2016</u>	Low	Ν	vledian		Mean	High
Opening Balance	\$ 12,505	\$ 15,440	\$	15,914	\$ 10,749	\$ 10,937	\$ 10,749	\$	12,505	\$	13,109	\$ 15,914
Additions:					 							
Employee Contributions	6,147	5,893		4,573	5,447	5,460	4,573		5,460		5,504	6,147
Retiree & Other Contributions	6,910	5,701		5,188	5,141	5,694	5,141		5,694		5,727	6,910
Employer Contributions	21,155	20,629		14,252	22,220	24,231	14,252		21,155		20,497	24,231
Sub-total	\$ 34,212	\$ 32,223	\$	24,013	\$ 32,808	\$ 35,385						
Deductions:	 				 	 						
Payments for Claims	29,220	29,354		27,157	30,408	32,946	27,157		29,354		29,817	32,946
Actuary & Other Payments	2,057	2,395		2,021	2,212	2,197	2,021		2,197		2,176	2,395
Sub-total	\$ 31,277	\$ 31,749	\$	29,178	\$ 32,620	\$ 35,143						
Ending balance	\$ 15,440	\$ 15,914	\$	10,749	\$ 10,937	\$ 11,179	\$ 10,749	\$	11,179	\$	12,844	\$ 15,914

Observations:

• Self Insurance for Employee Health Insurance began in July 2009.

• Projections are using the 8% rate of increase based on information obtained from the Actuarial Memorandum and Report.

Calendar year data is presented above in fiscal year format.

Electric System Rate Stabilization - Fuel Management

For the Fiscal Quarter Ending December 31, 2016

Reserve/Fund Authorization: Bond Resolution and Pricing Policy

Metric: Targeted 15% of total annual projected energy costs

Definitions and Goals: The Electric System Bond Resolution authorizes the establishment of a Rate Stabilization Fund in which contributions or withdrawals shall be made as set forth in the current annual budget or an amount otherwise determined by an authorized officer of JEA. The Rate Stabilization Fund provides a means to minimize the year-to-year impact to customer charges and support financial metrics by providing consistent revenue collection for expenditures impacted by external factors such as fuel, debt management and regulatory requirements or initiatives. Established pursuant to the section VII and Section IX of the Pricing Policy, the Fuel Reserve target is 15% of the greater of (a) the maximum 12-month historical fuel cost or (b) the projected 12-month fuel cost. Withdrawals from the Rate Stabilization Fund for fuel stabilization are limited to the following purposes: (a) to reduce the variable fuel rate charge to the customers for a determined period of time; (b) to reduce the excess of the actual fuel and purchased power expense for the fiscal year over the variable fuel rate revenues; (c) to be rebated back to the customers as a credit against the electric bill; and/or (d) to reimburse the costs associated with any energy risk management activities.

	Actual as of	f 12/31	/2016			l	ull Year				Pr	ojection	
	Current				2017		2017	Р	rior Year				
(In Thousands)	Quarter	Yea	ar -to-Date	I	orecast		Budget		Actual	<u>2018</u>		<u>2019</u>	<u>2020</u>
Opening Balance Additions:	\$ 180,115	\$	180,115	\$	180,115		N/A	\$	150,742	\$ 127,960	\$	85,227	\$ 76,362
Contributions					-		37,705		85,979				10,792
Sub-total	\$ -	\$	-	\$	-	\$	37,705	\$	85,979	\$ -	\$		\$ 10,792
Withdrawals Customer Fuel Rebate Credit	2,793		2,793		52,155		-		- 56,606	42,733		8,865	
Sub-total	\$ 2,793	\$	2,793	\$	52,155	\$	-	\$	56,606	\$ 42,733	\$	8,865	\$ -
Ending Balance	\$ 177,322	\$	177,322	\$	127,960		N/A	\$	180,115	\$ 85,227	\$	76,362	\$ 87,154

				Hi	storical				Stati	istical		
		<u>2012</u>	<u>2013</u>		<u>2014</u>	<u>2015</u>	<u>2016</u>	Low	Median		Mean	High
Opening Balance Additions:	\$	24,990	\$ 92,362	\$	108,289	\$ 105,457	\$ 150,742	\$ 24,990	\$ 105,457	\$	96,368	\$ 150,742
Contributions		76,763	52,523		22,496	95,224	85,979	22,496	76,763		66,597	95,224
								-	-		-	-
			 			 	 	-	-		-	-
Sub-total	\$	76,763	\$ 52,523	\$	22,496	\$ 95,224	\$ 85,979					
Deductions:												
Withdrawals		9,391						9,391	9,391		9,391	9,391
Customer Fuel Rebate C	redit		36,596		25,328	49,939	56,606	25,328	43,268		42,117	56,606
			 			 	 	-	-		-	-
Sub-total	\$	9,391	\$ 36,596	\$	25,328	\$ 49,939	\$ 56,606					
Ending balance	\$	92,362	\$ 108,289	\$	105,457	\$ 150,742	\$ 180,115	\$ 92,362	\$ 108,289	\$	127,393	\$ 180,115

Observations:

• Actual and historical numbers reflect fuel recovery contributions and withdrawls on a gross basis. Forecast and projected numbers reflected on a net basis. The fuel recovery charge ended 12/31/11.

Electric System Rate Stabilization - Demand Side Management (DSM)

For the Fiscal Quarter Ending December 31, 2016

Reserve/Fund Authorization: Bond Resolution and Pricing Policy

Metric: \$0.50 per 1,000 kWh plus \$0.01 per kWh residential conservation charge for consumption greater than 2,750 KWh monthly

Definitions and Goals: The Electric System Bond Resolution authorizes the establishment of a Rate Stabilization Fund in which contributions or withdrawals shall be made as set forth in the current annual budget or an amount otherwise determined by an authorized officer of JEA. The Rate Stabilization Fund provides a means to minimize the year-to-year impact to customer charges and support financial metrics by providing consistent revenue collection for expenditures impacted by external factors such as fuel, debt management and regulatory requirements or initiatives. Pursuant to section VII of the Pricing Policy, \$0.50 per 1,000 kWh plus \$0.01 per kWh residential conservation charge for consumption greater than 2,750 kWh monthly. These revenue sources are to fund demand side management and conservation programs.

		Actual as of	12/31/	2016				Full Year				Pre	ojection	
	C	urrent				2017		2017	Pri	or Year				
(In Thousands)	۵	uarter	Year	-to-Date	Fo	orecast		Budget	A	ctual	<u>2018</u>		<u>2019</u>	<u>2020</u>
Opening Balance	\$	3,515	\$	3,515	\$	3,515		N/A	\$	2,886	\$ 3,235	\$	2,848	\$ 2,461
Additions:														
Contributions		1,456		1,456		6,891		7,200		7,232	6,817		6,817	6,817
Other														
Sub-total	\$	1,456	\$	1,456	\$	6,891	\$	7,200	\$	7,232	\$ 6,817	\$	6,817	\$ 6,817
Withdrawals		1,238		1,238		7,171		8,117		6,603	7,204		7,204	7,204
Sub-total	\$	1,238	\$	1,238	\$	7,171	\$	8,117	\$	6,603	\$ 7,204	\$	7,204	\$ 7,204
Ending Balance	\$	3,733	\$	3,733	\$	3,235	<u> </u>	N/A	\$	3,515	\$ 2,848	\$	2,461	\$ 2,074

			Hi	storical				Stati	istical		
	<u>2012</u>	<u>2013</u>		<u>2014</u>	<u>2015</u>	<u>2016</u>	Low	Median		Mean	High
Opening Balance Additions:	\$ 10,703	\$ 6,912	\$	3,891	\$ 3,570	\$ 2,886	\$ 2,886	\$ 3,891	\$	5,592	\$ 10,703
Contributions Transfer from Rev Fd	6,657	6,683		6,929	7,059	7,232	6,657 -	6,929 -		6,912 -	7,232
Sub-total Deductions:	\$ 6,657	\$ 6,683	\$	6,929	\$ 7,059	\$ 7,232	-	-		-	-
Withdrawals	10,448	9,704		7,250	7,743	6,603	6,603	7,743		8,350 -	10,448 -
Sub-total	\$ 10,448	\$ 9,704	\$	7,250	\$ 7,743	\$ 6,603	-	-		-	-
Ending balance	\$ 6,912	\$ 3,891	\$	3,570	\$ 2,886	\$ 3,515	\$ 2,886	\$ 3,570	\$	4,155	\$ 6,912

Observations:

• Rate Stabilization Fund for Demand Side Management began in April 2009.

Electric System Rate Stabilization - Environmental

For the Fiscal Quarter Ending December 31, 2016

Reserve/Fund Authorization: Bond Resolution and Pricing Policy

Metric: \$0.62 per 1,000 kWh

Definitions and Goals: The Electric System Bond Resolution authorizes the establishment of a Rate Stabilization Fund in which contributions or withdrawals shall be made as set forth in the current annual budget or an amount otherwise determined by an authorized officer of JEA. The Rate Stabilization Fund provides a means to minimize the year-to-year impact to customer charges and support financial metrics by providing consistent revenue collection for expenditures impacted by external factors such as fuel, debt management and regulatory requirements or initiatives. Deposits to this fund began in fiscal year 2010 for amounts representing the Electric System Environmental Charge (\$0.62 per 1000 kWh). Withdrawals from this reserve will represent payments for regulatory initiatives such as the premium cost of renewable energy generation which is considered available for JEA's capacity plans.

	Actual as of	12/31/	2016			F	ull Year			Pi	ojection	
(In Thousands)	Current Quarter	Voo	r -to-Date		2017 orecast		2017 Budget	rior Year Actual	2019		2010	2020
(in mousulus)	Quarter	rea	I -lu-Dale	1	Ulecasi		buuget	Actual	<u>2018</u>		<u>2019</u>	<u>2020</u>
Opening Balance	\$ 29,975	\$	29,975	\$	29,975		N/A	\$ 23,430	\$ 35,950	\$	42,050	\$ 46,930
Additions:												
Contributions	1,672		1,672		7,422		7,564	7,700	7,320		7,320	7,320
Sub-total	\$ 1,672	\$	1,672	\$	7,422	\$	7,564	\$ 7,700	\$ 7,320	\$	7,320	\$ 7,320
Withdrawals					1,447		2,078	1,155	1,220		2,440	3,660
Sub-total	\$ 	\$		\$	1,447	\$	2,078	\$ 1,155	\$ 1,220	\$	2,440	\$ 3,660
Ending Balance	\$ 31,647	\$	31,647	\$	35,950		N/A	\$ 29,975	\$ 42,050	\$	46,930	\$ 50,590

				His	torical					Stat	istical		
	<u>2012</u>		<u>2013</u>		<u>2014</u>	<u>2015</u>	<u>2016</u>	Low	l	Median		Mean	High
Opening Balance Additions:	\$ 4,232	\$	5,343	\$	10,023	\$ 16,639	\$ 23,430	\$ 4,232	\$	10,023	\$	11,933	\$ 23,430
Contributions	2,436		5,650		7,395	7,586	7,700	2,436		7,395		6,153	7,700
		_		_				-		-		-	-
Sub-total Deductions:	\$ 2,436	\$	5,650	\$	7,395	\$ 7,586	\$ 7,700						
Withdrawals	1,325		970		779	795	1,155	779		970		1,005	1,325
								-		-		-	-
Sub-total	\$ 1,325	\$	970	\$	779	\$ 795	\$ 1,155						
Ending balance	\$ 5,343	\$	10,023	\$	16,639	\$ 23,430	\$ 29,975	\$ 5,343	\$	16,639	\$	17,082	\$ 29,975

Observations:

• Rate Stabilization Fund for Environmental began in June 2010.

Electric System Rate Stabilization - Debt Management

For the Fiscal Quarter Ending December 31, 2016

Reserve/Fund Authorization: Bond Resolution and Pricing Policy

Metric: Difference in actual interest rates for interest expense on the unhedged variable rate debt as compared to the budgeted assumptions for interest expense on unhedged variable rate debt Definitions and Goals: The Electric System Bond Resolution authorizes the establishment of a Rate Stabilization Fund in which deposits or withdrawals shall be made as set forth in the current annual budget or an amount otherwise determined by an authorized officer of JEA. The Rate Stabilization Funds provide a means to minimize the year-to-year impact to customer charges and support financial metrics by providing consistent revenue collection for expenditures impacted by external factors such as fuel, debt management and regulatory requirements or initiatives. Deposits are made to this Rate Stabilization Fund for the purpose of managing JEA's debt portfolio. Deposits to this reserve reflect the difference in the actual interest rates for interest expense on the unhedged variable rate debt. Additionally, deposits can be made from excess debt service budget over the actual debt service expense for any fiscal year. However, the total amounts deposited (in addition to actual debt service costs for the fiscal year) cannot exceed the total amount of the budgeted debt service for any fiscal year. At a minimum, 50% of the calculated reserve contribution, if any, will be recorded and deposited each fiscal year. Debt and Investment Committee will review and record at their option an additional contribution amount, up to the full value of the calculated reserve contribution shall cease in the event the reserve balance exceeds the cap of five percent of the par amount of the total outstanding variable rate debt of all systems. Withdrawals from the Rate Stabilization Fund for Debt Management Strategy can be made for expenses related to market disruption in the capital markets, disruption in availability of credit or unanticipated credit expenses, or to fund variable interest costs in excess of budget.

		Actual as of	12/31/	2016			Ful	l Year				Pi	rojection	
	(Current				2017	2	2017	Pr	ior Year				
(In Thousands)	C	Quarter	Year	r -to-Date	F	orecast	Bu	udget		Actual	<u>2018</u>		<u>2019</u>	<u>2020</u>
Opening Balance	\$	42,126	\$	42,126	\$	42,126	I	N/A	\$	42,126	\$ 29,884	\$	29,884	\$ 29,884
Additions: Contributions							1	N/A		-	 			
Sub-total	\$	-	\$		\$		\$	-	\$	-	\$ -	\$		\$ -
Withdrawals						12,242				-				
Sub-total	\$		\$	-	\$	12,242	\$	-	\$		\$ 	\$		\$ -
Ending Balance	\$	42,126	\$	42,126	\$	29,884		N/A	\$	42,126	\$ 29,884	\$	29,884	\$ 29,884

			His	storical						Stat	istical			
	<u>2012</u>	<u>2013</u>		<u>2014</u>	<u>2015</u>	<u>2016</u>		Low	I	Vedian		Mean		High
Opening Balance Additions:	\$ 35,930	\$ 41,611	\$	42,126	\$ 42,126	\$ 42,126	\$	35,930	\$	42,126	\$	40,784	\$	42,126
Contributions	5,681	6,581						5,681		6,131		6,131		6,581
Sub-total	\$ 5,681	\$ 6,581	\$	-	\$ 	\$ 		-		-		-		-
Deductions: Withdrawals		6,066						6,066		6,066		6,066		6,066
Sub-total Ending balance	\$ - 41,611	\$ 6,066 42,126	\$	- 42,126	\$ 42,126	\$ 42,126	ć	- 41,611	ć	- 42,126	ć	- 42,023	ć	- 42,126

Observations:

Rate Stabilization Fund for Debt Management began in May 2009.

Electric System Rate Stabilization - Non-Fuel Purchased Power

For the Fiscal Quarter Ending December 31, 2016

Reserve/Fund Authorization: Bond Resolution and Pricing Policy

Metric: Difference in actual interest rates for interest expense on the unhedged variable rate debt as compared to the budgeted assumptions for interest expense on unhedged variable rate debt Definitions and Goals: The Electric System Bond Resolution authorizes the establishment of a Rate Stabilization Fund in which deposits or withdrawals shall be made as set forth in the current annual budget or an amount otherwise determined by an authorized officer of JEA. The Rate Stabilization Funds provide a means to minimize the year-to-year impact to customer charges and support financial metrics by providing consistent revenue collection for expenditures impacted by external factors such as fuel, debt management and regulatory requirements or initiatives. Deposits to the Rate Stabilization Fund for Non-Fuel Purchased Power Stabilization during the fiscal year are made with the approval of the CEO or CFO, provided such deposits are not in excess of JEA's total operating budget for the current fiscal year. Withdrawals from the Rate Stabilization Fund for Non-Fuel Purchased Power are to reimburse the costs associated with any non-fuel purchased power activities. Withdrawals can be made as necessary during the fiscal year and requires the approval of the CEO or the CFO.

	Actual as of	12/31/2	2016		F	ull Year					Pi	rojection	
(In Thousands)	urrent uarter	Year	-to-Date	2017 orecast		2017 Budget		ior Year Actual		<u>2018</u>		<u>2019</u>	<u>2020</u>
Opening Balance Additions: Contributions	\$ 34,400	\$	34,400	\$ 34,400		N/A	\$	38,000	\$	26,194	\$	14,449	\$
Sub-total	\$ -	\$	-	\$ -	\$	-	\$	-	\$	-	\$	-	\$
Withdrawals Sub-total	\$ 1,540	\$	1,540	\$ 8,206	\$	9,232	\$	3,600	\$	11,745	\$	14,449	\$
Ending Balance	\$ 32,860	\$	32,860	\$ 26,194		N/A	Ś	34,400	Ś	14,449	\$	-	\$

					His	storical							Stati	stical		
	201	2	2	013		<u>2014</u>		<u>2015</u>		<u>2016</u>	Low	ſ	Vedian		Mean	High
Opening Balance Additions:	\$		\$		\$		\$	12,000	\$	38,000	\$ -	\$	-	\$	10,000	\$ 38,000
Contributions						12,000		26,000			12,000		19,000		19,000	26,000
Sub-total	\$	-	\$	-	\$	12,000	\$	26,000	\$	-	-		-		-	-
Deductions: Withdrawals										3,600	3,600		3,600		3,600	3,600
Sub-total Ending balance	\$ \$	-	\$ \$	-	\$ \$	- 12,000	\$ \$	- 38,000	\$ \$	3,600 34,400	\$ -	\$	- 12,000	\$	- 16,880	\$ - 38,000

Observations:

The Non-Fuel Purchased Power Rate Stabiliation Fund began in FY 2014.

Electric System Environmental Reserve

For the Fiscal Quarter Ending December 31, 2016

Reserve/Fund Authorization: Pricing Policy

Metric: Target equals the balance in the environmental liability account

Definitions and Goals: This reserve represents the initial amounts collected from the Electric System Environmental Charge and will be deposited until the balance in this reserve equals the balance in the environmental liability account. Withdrawals from this account will represent payments for these liabilities.

	Actual as of	f 12/31/	2016			Full Year				Pr	ojection	
	Current				2017	2017	Р	rior Year				
(In Thousands)	Quarter	Yea	r -to-Date	F	orecast	Budget		Actual	<u>2018</u>		<u>2019</u>	<u>2020</u>
Opening Balance	\$ 18,556	\$	18,556	\$	18,556	N/A	\$	18,662	\$ 18,556	\$	18,556	\$ 18,556
Additions: Contributions					-	N/A		-				
Sub-total	\$ -	\$	-	\$	-	\$ -	\$	-	\$ -	\$	-	\$ -
Withdrawals					-	N/A		106				
Sub-total	\$ -	\$	-	\$	-	\$ -	\$	106	\$ -	\$	-	\$ -
Ending Balance	\$ 18,556	\$	18,556	\$	18,556	N/A	\$	18,556	\$ 18,556	\$	18,556	\$ 18,556

			His	storical					Stati	istical		
	<u>2012</u>	<u>2013</u>		<u>2014</u>	<u>2015</u>	2016	Low	l	Median		Mean	High
Opening Balance Additions:	\$ 20,899	\$ 18,359	\$	18,662	\$ 18,662	\$ 18,662	\$ 18,359	\$	18,662	\$	19,049	\$ 20,899
Contributions		970					970		970		970	970
							-		-		-	-
Sub-total Deductions:	\$ 	\$ 970	\$	-	\$ -	\$ -	-		-		-	-
Withdrawals	2,540	667				106	106		667		1,104	2,540
							-		-		-	-
Sub-total	\$ 2,540	\$ 667	\$	-	\$ -	\$ 106	-		-		-	-
Ending balance	\$ 18,359	\$ 18,662	\$	18,662	\$ 18,662	\$ 18,556	\$ 18,359	\$	18,662	\$	18,580	\$ 18,662

Observations:

• The Environmental Reserve began in FY 2008.

Electric System Customer Deposits

For the Fiscal Quarter Ending December 31, 2016

Reserve/Fund Authorization: Management Directive 302 Credit and Collections and Internal Procedure CR40400 MBC302

Metric: Internal procedure CR40400 MBC302 Credit and Collections

Definitions and Goals: Pursuant to internal procedure CR40400 MBC302 Credit and Collections, JEA accesses customers a deposit that may be used to offset any future unpaid amounts during the course of providing utility service to a customer.

	Actual as of	12/31/	2016		Full Year				Pi	ojection	
(In Thousands)	Current Quarter	Yea	r -to-Date	2017 precast	2017 Budget		ior Year Actual	<u>2018</u>		<u>2019</u>	<u>2020</u>
Opening Balance Additions:	\$ 41,084	\$	41,084	\$ 41,084	N/A		\$ 42,389	\$ 41,863	\$	41,863	\$ 41,863
Net Customer Activity Loan Repayment to ES Revenue Fund	779		779	779	N/A		-				
Sub-total	\$ 779	\$	779	\$ 779	\$	-	\$ -	\$ -	\$	-	\$ -
Net Customer Activity Loan to ES Revenue Fund				-	N/A		1,305 -				
Sub-total	\$ -	\$	-	\$ -	\$	-	\$ 1,305	\$ -	\$	-	\$ -
Ending Balance	\$ 41,863	\$	41,863	\$ 41,863	N/A		\$ 41,084	\$ 41,863	\$	41,863	\$ 41,863

			His	storical				Stati	stical		
	<u>2012</u>	<u>2013</u>		<u>2014</u>	<u>2015</u>	<u>2016</u>	Low	Median		Mean	High
Opening Balance Additions:	\$ 42,767	\$ 43,454	\$	44,882	\$ 42,688	\$ 42,389	\$ 42,389	\$ 42,767	\$	43,236	\$ 44,882
Net Customer Activity Loan Repayment to ES Revenue Fund	905	1,430					905 -	1,168 -		1,168	1,430 -
Sub-total Deductions:	\$ 905	\$ 1,430	\$	-	\$ -	\$ -	-	-		-	-
Net Customer Activity Loan to ES Revenue Fund	218	2		2,194	299	1,305	2	299 -		804 -	2,194 -
Sub-total	\$ 218	\$ 2	\$	2,194	\$ 299	\$ 1,305					
Ending balance	\$ 43,454	\$ 44,882	\$	42,688	\$ 42,389	\$ 41,084	\$ 41,084	\$ 42,688	\$	42,899	\$ 44,882

Observations:

• JEA is in the process of implementing a prepaid meter program which could reduce customer deposits starting in Fiscal Year 2014.

Electric System Debt Service Sinking Fund

For the Fiscal Quarter Ending December 31, 2016

Reserve/Fund Authorization: Bond Resolution

Metric: Accrued interest and principal currently payable on fixed and variable rate bonds pursuant to the Bond Resolutions

Definitions and Goals: JEA is required monthly to fund from revenues an amount equal to the aggregate of the Debt Service Requirement for senior and subordinated bonds for such month into this account. On or before such interest payment date, JEA shall pay out of this account to the paying agents the amount required for the interest and principal due on such date.

		Actual as of	f 12/31,	/2016			I	Full Year					Р	rojection		
		Current				2017		2017	F	rior Year						
(In Thousands)	(Quarter	Yea	ar -to-Date	F	orecast		Budget		Actual		<u>2018</u>		<u>2019</u>		<u>2020</u>
Opening Balance	\$	136,232	\$	136,232	\$	136,232		N/A	\$	134,927	\$	168,025	\$	161,153	\$	149,799
Additions:																
Revenue Fund Deposits		42,572		42,572		217,612				177,847		210,807		201,948		141,059
Bond funded interest										-						
Sub-total	\$	42,572	\$	42,572	\$	217,612	\$	-	\$	177,847	\$	210,807	\$	201,948	\$	141,059
Principal and Int Payments		137,066		137,066		185,819		N/A		176,542		217,679		213,302		199,191
Sub-total	\$	137,066	\$	137,066	\$	185,819	\$	-	\$	176,542	\$	217,679	\$	213,302	\$	199,191
Ending Balance	\$	41,738	Ś	41,738	Ś	168,025	<u> </u>	N/A	\$	136,232	Ś	161,153	Ś	149,799	Ś	91,667

			Hi	storical				Stati	istical		
	<u>2012</u>	<u>2013</u>		<u>2014</u>	<u>2015</u>	<u>2016</u>	Low	Median		Mean	High
Opening Balance Additions:	\$ 125,988	\$ 107,754	\$	101,305	\$ 120,458	\$ 134,927	\$ 101,305	\$ 120,458	\$	118,086	\$ 134,927
Revenue Fund Deposits Bond funded interest	159,724	159,072		167,340	181,006	177,847	159,072 -	167,340 -		168,998 -	181,006 -
Sub-total Deductions:	\$ 159,724	\$ 159,072	\$	167,340	\$ 181,006	\$ 177,847	-	-		-	-
Principal and Int Payments	177,958	165,521		148,187	166,537	176,542	148,187 -	166,537 -		166,949	177,958
Sub-total	\$ 177,958	\$ 165,521	\$	148,187	\$ 166,537	\$ 176,542	-	-		-	-
Ending balance	\$ 107,754	\$ 101,305	\$	120,458	\$ 134,927	\$ 136,232	\$ 101,305	\$ 120,458	\$	120,135	\$ 136,232

Observations:

• September 30th ending balances are used to pay the October 1st interest and principal payments.

• This report does not include any Scherer debt service sinking funds.

• Timing differences occur due to the accrual of debt service during one fiscal year and the payment in the following fiscal year (primarily fixed rate principal and interest on October 1st of the following fiscal year).

Electric System Debt Service Reserve Account

For the Fiscal Quarter Ending December 31, 2016

Reserve/Fund Authorization: Bond Resolution

Metric: Maximum interest payable on outstanding senior Electric System bonds as required by the Bond Resolutions

Definitions and Goals: This reserve will be funded, maintained and held for the benefit of bondholders as specified in the Supplemental Resolution authorizing the sale of the bonds to pay principal and/or interest on the bonds should revenues from operations not be sufficient for such purpose in accordance with the appropriate bond resolution. It is JEA's current practice to fund this reserve account with cash from the sale of bonds; however, revenues may be utilized to fund this reserve if necessary.

		Actual as of	f 12/31/	2016		Fu	ll Year Budget An	nounts			I	Projection	
	(Current				2017	2017	Р	rior Year				
(In Thousands)	(Quarter	Yea	r -to-Date	F	orecast	Budget		Actual	<u>2018</u>		<u>2019</u>	<u>2020</u>
Opening Balance Additions:	<u>\$</u>	60,582	\$	60,582	\$	60,582	N/A	\$	64,595	\$ 60,582	\$	60,582	\$ 60,582
Sub-total	\$	-	\$	-	\$	-	\$	- \$	-	\$ -	\$	-	\$ -
Release to Revenue Fund							N/A		4,013				
Sub-total	\$	-	\$	-	\$	-	\$	- \$	4,013	\$ -	\$	-	\$
Ending Balance	\$	60,582	\$	60,582	\$	60,582	N/A	\$	60,582	\$ 60,582	\$	60,582	\$ 60,582

					Histori	ical Actuals							St	atistica	al	
		<u>2012</u>		<u>2013</u>		<u>2014</u>		<u>2015</u>		<u>2016</u>	Low	ſ	Vedian		Mean	High
Opening Balance Additions:	\$	72,226	\$	72,226	\$	64,841	\$	64,841	\$	64,595	\$ 64,595	\$	64,841	\$	67,746	\$ 72,226
Proceeds from Bonds								-		-	-		-		-	-
Sub-total Deductions:	\$	-	\$	-	\$	-	\$	-	\$	-						
Defeasance				7,385				246		4,013	246		4,013		3,881	7,385
	<u> </u>		ć	7 205	<u></u>		<u></u>	246	<u></u>	4.012	-		-		-	-
Sub-total Ending balance	\$ \$	- 72,226	\$ \$	7,385 64,841	\$	- 64,841	\$	246 64,595	\$	4,013 60,582	60,582		64,841		65,417	72,226

Observations:

• This report does not include any Scherer debt service reserves.

• In FY 2007, the debt service reserve requirement was satisfied 100% by the use of debt service reserve surety policies. In accordance with the bond resolution, beginning in FY 2008, cash/investments replaced the downgraded sureties due to their downgrade by the rating agencies. Sureties of \$67.6 million are still outstanding but are not eligible to be utilized as debt service reserve deposits per the Bond Resolutions.

• The debt service reserve account balance is currently in excess of the the debt service reserve requirement under the bond resolution by \$8.0 million. The excess will be used, if needed, to (1) fund an

increase in the reserve requirement caused by a future issuance of new money bonds and/or variable to fixed refunding bonds, (2) help satisfy cash reserve targets instituted by the rating agencies, and/or (3) redeem bonds, in accordance with applicable tax laws.

Electric Renewal and Replacement (R&R) / Operating Capital Outlay (OCO)

For the Fiscal Quarter Ending December 31, 2016

Reserve/Fund Authorization: Bond Resolution, Article 21 of the City of Jacksonville Charter and Pricing Policy

Metric: Renewal and Replacement required to deposit from the revenue fund annually an amount equal to the greater of 10% of the prior year defined annual net revenues or 5% of the prior year defined gross revenues per JEA's Electric System bond resolutions. Operating Capital Outlay - by 2013 the goal is to fund all non-capacity capital expenditures.

Definitions and Goals: Pursuant to the Electric System bond resolution and Article 21 of the City of Jacksonville Charter, JEA is required to deposit from the revenue fund annually an amount for Renewal and Replacement of system assets. According to the bond resolutions the amount is equal to the greater of 10% of the prior year defined annual net revenues or 5% of the prior year defined gross revenues. The funds shall be used for the purposes of paying the cost of extensions, enlargements or additions to, or the replacement of capital assets of the Electric System. In addition, as a portion of the base rate, JEA will recover from current revenue a formula driven amount for capital expenditures which is referred to as Operating Capital Outlay. This amount is calculated separately from the R&R deposit and may be allocated for use between capacity or non-capacity related expenditures based on the most beneficial economic and tax related financing structure incorporating the use of internal and bond funding.

	Actual as of	12/31	/2016			Fu	ull Year				Р	rojection	
	Current				2017		2017	F	rior Year				
(In Thousands)	Quarter	Yea	ar -to-Date	I	Forecast	l	Budget		Actual	<u>2018</u>		<u>2019</u>	<u>2020</u>
Opening Balance	\$ 192,179	\$	192,179	\$	192,179		N/A	\$	145,711	\$ 173,665	\$	163,340	\$ 146,327
Additions:													
R&R/OCO Contribution	47,153		47,153		170,000				200,692	150,112		151,178	108,781
Loans betw Capital Fds							-		-				
Other	152		152		15,624		-		3,744	18,590			
Sub-total	\$ 47,305	\$	47,305	\$	185,624	\$	-	\$	204,436	\$ 168,702	\$	151,178	\$ 108,781
Deductions:													
Capital Expenditures	27,643		27,643		149,221				157,201	179,027		168,191	113,893
Transfers betw Capital Fds							-		765				
R&R/OCO Contribution													
Debt Defeasance					37,150		-		-				
Other	7,767		7,767		17,767								
Sub-total	\$ 35,410	\$	35,410	\$	204,138	\$	-	\$	157,966	\$ 179,027	\$	168,191	\$ 113,893
Ending Balance	\$ 204,074	\$	204,074	\$	173,665		N/A	\$	192,181	\$ 163,340	\$	146,327	\$ 141,215

			Hi	storical				Stati	stical		
	<u>2012</u>	<u>2013</u>		<u>2014</u>	<u>2015</u>	2016	Low	Median		Mean	High
Opening Balance	\$ 73,727	\$ 105,235	\$	140,486	\$ 146,910	\$ 145,711	\$ 73,727	\$ 140,486	\$	122,414	\$ 146,910
Additions:											
R&R/OCO Contribution	142,822	124,630		85,639	110,351	200,692	85,639	124,630		132,827	200,692
Loans betw Capital Fds	-	-		-			-	-		-	-
Other	943	2,423		4,014	970	3,744	943	2,423		2,419	4,014
Sub-total	\$ 143,765	\$ 127,053	\$	89,653	\$ 111,321	\$ 204,436					
Deductions:					 						
Capital Expenditures	112,257	91,802		82,889	112,483	157,201	82,889	112,257		111,326	157,201
Bond Buy Back	-					2	-	1		1	2
Transfer to Scherer											
Loans betw Capital Fds				340	37	765					
Other		-			-		-	-		-	-
Sub-total	\$ 112,257	\$ 91,802	\$	83,229	\$ 112,520	\$ 157,968					
Ending balance	\$ 105,235	\$ 140,486	\$	146,910	\$ 145,711	\$ 192,179	\$ 105,235	\$ 145,711	\$	146,104	\$ 192,179

Observations:

Other includes the Oracle Financing and Sale of Property.

Includes \$47 million for Maximum Annual Debt Service calculation.

Electric Construction / Bond Fund

For the Fiscal Quarter Ending December 31, 2016

Reserve/Fund Authorization: Bond Resolution

Metric: Target = Capital expenditures per year minus internal funding available

Definitions and Goals: JEA maintains a senior and subordinated construction fund of which bonds proceeds are deposited and used for the payment of the costs of additions, extensions and improvements to the Electric System. The senior construction fund is limited to the costs of additions, extension and improvements relating to non-generation capital expenditures. The subordinated construction fund is used for capital projects relating to all categories of capital expenditures but primarily targeted to fund generation capital expenditures.

	Ac	tual as of 12/	31/2016				Full Yea	r					Proje	ection	
	Curr	ent			203	17	2017		Prior	Year					
(In Thousands)	Quar	rter	/ear -to-Da	ite	Fore	cast	Budget	t	Act	tual	<u>20</u>	018	<u>20</u>	19	2020
Opening Balance	\$	- \$		-	\$	-	N/A		\$	4	\$	-	\$	-	\$ -
Additions:							-								
Bond Proceeds								-		-					
Line of Credit								-		-					
Transfers b/w Capital Fds		-						-		-					
Other								-		2					
Sub-total	\$	- \$		-	\$	-	\$	-	\$	2	\$	-	\$	-	\$ -
Deductions:															
Capital Expenditures										6		-		-	-
Bond Funded Interest								-		-					
Transfers b/w Capital Fds										-					
Other						-		-		-					
Sub-total	\$	- \$		-	\$	-	\$	-	\$	6	\$	-	\$	-	\$ -
Ending Balance	\$	- \$		-	\$	-	N/A		\$	-	\$	-	\$	-	\$ -

			His	torical						Stat	istical		
(In Thousands)	<u>2012</u>	<u>2013</u>		<u>2014</u>	<u>2015</u>	<u> </u>	2016	Low	I	Median		Mean	High
Opening Balance	\$ 63,915	\$ 40,034	\$	5,184	\$ 42	\$	4	\$ -	\$	2,613	\$	18,197	\$ 63,915
Additions:													
Bond Proceeds		1,550						1,550		1,550		1,550	1,550
Line of Credit								-		-		-	-
Transfers b/w Capital Fds				3,091				3,091		3,091		3,091	3,091
Other		34		340	 37		2	2		36		103	340
Sub-total	\$ -	\$ 1,584	\$	3,431	\$ 37	\$	2						
Deductions:													
Capital Expenditures	23,385	35,253		4,821	75		6	6		4,821		12,708	35,253
Bond Funded Interest								-		-		-	-
Line of Credit													
Transfers b/w Capital Fds		35		3,091				35		1,563		1,563	3,091
Other	496	1,146		661				496		661		768	1,146
Sub-total	\$ 23,881	\$ 36,434	\$	8,573	\$ 75	\$	6						
Ending balance	\$ 40,034	\$ 5,184	\$	42	\$ 4	\$	-	\$ -	\$	42	\$	9,053	\$ 40,034

Observations:

• JEA's philosophy has been to borrow bond funds on a "just-in-time" basis. Staff has used line of credit borrowings and loans between capital funds to decrease borrowing costs.

• No new debt issues for the FY 2017 - 2019 projection period.

Water and Sewer Debt Management Reserve

For the Fiscal Quarter Ending December 31, 2016

Reserve/Fund Authorization: Debt Management Policy

Metric: One-half percent of the par amount of outstanding variable debt (adjusted for variable to fixed rate long term swaps). Capped at 3% of the par amount of outstanding variable debt.

Definitions and Goals: For the period FY 04 through FY 09, an annual budgeted reserve contribution for variable rate debt was made. The calculation was based upon one half percent of the par amount of outstanding variable rate debt (adjusted for variable rate to fixed rate long term swaps). The budget reserve was capped at three percent of the par amount of the outstanding variable rate debt. The reserve can be used for any lawful purpose including debt service, debt repayment, and capital outlay and must be approved in writing by the CEO.

			12/31/2016	5			Full Year					Projec	tion	
(In Thousands)	Curr Quai		Year -to-	-Date	20 Fore		2017 Budget	Prior Act		<u>201</u>	<u>18</u>	<u>201</u>	<u>9</u>	<u>2020</u>
Opening Balance Additions: Contributions	\$		\$		\$		<u> </u>	\$	<u> </u>	\$		\$		\$
Sub-total Deductions: Withdrawals	\$		\$		\$		\$-	\$	<u>-</u> -	\$		\$	-	\$
Sub-total Ending Balance	\$	-	\$ \$	<u>-</u> -	\$ \$	-	\$ - N/A	\$	-	\$ \$	-	\$ \$	<u>-</u> -	\$ \$

			Hist	orical								Stati	istical			
	<u>2012</u>	<u>2013</u>	-	2014	ź	<u>2015</u>	<u>20</u>	016		Low	N	1edian		Mean		High
Opening Balance Additions: Contributions	\$ 6,458	\$ 6,458	<u>\$</u> -	304	\$	304	\$	-	\$	-	\$	304 -	\$	2,705	\$	6,458 -
Sub-total	\$ -	\$ -	\$	-	\$	-	\$	-		-		-		-		-
Deductions: Withdrawals		6,154				304				304 -		3,229		3,229		6,154 -
Sub-total Ending balance	\$ - 6,458	\$ 6,154 304	\$		\$	304	\$	-	ć	-	ć	- 304	ć	- 1,413	ć	- 6,458

Observations:

• This reserve fund discontinued contributions in FY 2009 due to adoption of new policy. Reserve activity reflected in RSF - Debt Management for that year.

• \$6 million was used in Sept 2013 for a defeasance.

Water and Sewer Rate Stabilization Debt Management

For the Fiscal Quarter Ending December 31, 2016

Reserve/Fund Authorization: Bond Resolution and Pricing Policy

Metric: Difference in actual interest rates for interest expense on the unhedged variable rate debt as compared to the budgeted assumptions for interest expense on unhedged variable rate debt.

Definitions and Goals: TheWater & Sewer System Bond Resolution authorizes the establishment of a Rate Stabilization Fund in which deposits or withdrawals shall be made as set forth in the current annual budget or an amount otherwise determined by an authorized officer of JEA. The Rate Stabilization Funds provide a means to minimize the year-to-year impact to customer charges and support financial metrics by providing consistent revenue collection for expenditures impacted by external factors such as fuel, debt management and regulatory requirements or initiatives. Deposits are made to this Rate Stabilization Fund for the purpose of managing JEA's debt portfolio. Deposits to this reserve reflect the difference in the actual interest rates for interest expense on the unhedged variable rate debt. Additionally, deposits can be made from excess debt service budget over the actual debt service expense for any fiscal year. However, the total amounts deposited (in addition to actual debt service costs for the fiscal year) cannot exceed the total amount of the budgeted debt service for any fiscal year. At a minimum, 50% of the calculated reserve contribution, if any, will be recorded and deposited ach fiscal year. Debt and Investment Committee will review and record at their option anditional contribution amount, up to the full value of the calculated reserve contributions shall cease in the event the reserve balance exceeds the cap of five percent of the par amount of the total outstanding variable rate debt of all systems. Withdrawals from the Rate Stabilization Fund for Debt Management Strategy can be made for expenses related to market disruption in availability of credit or unanticipated credit expenses, or to fund variable interest costs in excess of budget.

		Actual as of	12/31/	2016			Full Year					Pr	ojection	
		Current				2017	2017		Prior \					
(In Thousands)	(Quarter	Yea	r -to-Date	F	orecast	Budget		Actu	al	2018		2019	<u>2020</u>
Opening Balance	\$	20,290	\$	20,290	\$	20,290	N/A	\$	5 2	20,290	\$ 14,209	\$	14,209	\$ 14,209
Additions:														
Contributions		-		-		-	N/A			-				
Financial Statement Rounding														
Sub-total	\$	-	\$	-	\$	-	\$	- \$	5	-	\$ -	\$	-	\$ -
Deductions:														
Withdrawals						6,081								
Sub-total	\$	-	\$	-	\$	6,081	\$	- \$	5	-	\$ -	\$	-	\$ -
Ending Balance	\$	20,290	\$	20,290	\$	14,209	N/A	\$	5 2	20,290	\$ 14,209	\$	14,209	\$ 14,209

			His	torical					Stat	istical		
	<u>2012</u>	<u>2013</u>		<u>2014</u>	2015	<u>2016</u>	Low	Ν	/ledian		Mean	High
Opening Balance Additions:	\$ 17,560	\$ 20,290	\$	20,290	\$ 20,290	\$ 20,290	\$ 17,560	\$	20,290	\$	19,744	\$ 20,290
Contributions	2,730						-		-		-	-
Sub-total	\$ 2,730	\$ 	\$	-	\$ 	\$ 	-		-		-	-
Deductions: Withdrawals							-		-		-	-
Sub-total	\$ -	\$ -	\$	-	\$ 	\$ -	-		-		-	-
Ending balance	\$ 20,290	\$ 20,290	\$	20,290	\$ 20,290	\$ 20,290	\$ 20,290	\$	20,290	\$	20,290	\$ 20,290

Observations:

• Contributions began in June 2009.

Water & Sewer System Rate Stabilization - Environmental

For the Fiscal Quarter Ending December 31, 2016

Reserve/Fund Authorization: Bond Resolution and Pricing Policy

Definitions and Goals: The Water & Sewer System Bond Resolution authorizes the establishment of a Rate Stabilization Fund in which contributions or withdrawals shall be made as set forth in the current annual budget or an amount otherwise determined by an authorized officer of JEA. The Rate Stabilization Fund provides a means to minimize the year-to-year impact to customer charges and support financial metrics by providing consistent revenue collection for expenditures impacted by external factors such as debt management and regulatory requirements or initiatives.

		Actual as of	12/31/2	2016			Full Ye	ar				Pr	ojection	
	C	urrent				2017	2017	,	Prior	Year				
(In Thousands)	Q	uarter	Year	-to-Date	F	orecast	Budge	et	Act	tual	<u>2018</u>		<u>2019</u>	<u>2020</u>
Opening Balance	\$	1,699	\$	1,699	\$	1,699	N/A		\$	-	\$ 1,497	\$	2,148	\$ 1,331
Additions:														
Contributions		5,907		5,907		23,321				-	23,979		24,064	24,155
Regulatory Receivable														
Sub-total	\$	5,907	\$	5,907	\$	23,321	\$	-	\$	-	\$ 23,979	\$	24,064	\$ 24,155
Deductions:						<u> </u>								
Withdrawals		4,634		4,634		23,523				-	23,328		24,881	24,651
Regulatory Receivable														
Sub-total	\$	4,634	\$	4,634	\$	23,523	\$	-	\$	-	\$ 23,328	\$	24,881	\$ 24,651
Ending Balance	\$	2,972	\$	2,972	\$	1,497	N/A		\$	-	\$ 2,148	\$	1,331	\$ 835

				His	torical					Stati	stical		
	2012		<u>2013</u>		<u>2014</u>	<u>2015</u>	<u>2016</u>	Low	I	Median		Mean	High
Opening Balance Additions:	\$	- \$	-	\$	-	\$ -	\$ 	\$ -	\$	-	\$	-	\$ -
Contributions							23,635	23,635		23,635		23,635	23,635
								-		-		-	-
Sub-total Deductions:	\$	- \$	-	\$	-	\$ -	\$ 23,635	-		-		-	-
Withdrawals							21,936	21,936		21,936		21,936	21,936
								-		-		-	-
Sub-total	\$	- \$		Ś		\$ 	\$ 21,936	-		-		-	-
Ending balance	\$	- \$	-	\$	-	\$ -	\$ 1,699	\$ -	\$	-	\$	340	\$ 1,699

Observations:

• Rate Stabilization Fund for Environmental began in June 2010.

Water and Sewer System Customer Deposits

For the Fiscal Quarter Ending December 31, 2016

Reserve/Fund Authorization: Management Directive 302 Credit and Collections and Internal Procedure CR40400 MBC302

Metric: Internal procedure CR40400 MBC302 Credit and Collections

Definitions and Goals: Pursuant to internal procedure CR40400 MBC302 Credit and Collections, JEA accesses customers a deposit that may be used to offset any future unpaid amounts during the course of providing utility service to a customer.

		Actual as of	i 12/31/	2016			Full Year				P	rojection	
	(Current				2017	2017	P	rior Year				
(In Thousands)	(Quarter	Yea	r -to-Date	F	orecast	Budget		Actual	<u>2018</u>		<u>2019</u>	<u>2020</u>
Opening Balance	\$	13,910	\$	13,910	\$	13,910	N/A	\$	13,255	\$ 13,911	\$	13,911	\$ 13,911
Additions:							-						
Allocated from Electric		1		1		1	N/A		655				
Loan Repayment						-							
Sub-total	\$	1	\$	1	\$	1	\$ -	\$	655	\$ -	\$	-	\$ -
Deductions:										 			
Allocated from Electric						-			-				
Loan to W&S Operations						-	N/A						
Sub-total	\$	-	\$	-	\$	-	\$ -	\$	-	\$ -	\$	-	\$ -
Ending Balance	\$	13,911	\$	13,911	\$	13,911	N/A	\$	13,910	\$ 13,911	\$	13,911	\$ 13,911

			His	torical				Stati	stical		
	<u>2012</u>	<u>2013</u>		<u>2014</u>	<u>2015</u>	<u>2016</u>	Low	Median		Mean	High
Opening Balance Additions:	\$ 9,727	\$ 12,627	\$	13,860	\$ 12,787	\$ 13,255	\$ 9,727	\$ 12,787	\$	12,451	\$ 13,860
Allocated from Electric	2,900	1,233			468	655	468	562		562	655
Loan Repayment	1,000						-	-		-	-
Sub-total Deductions:	\$ 3,900	\$ 1,233	\$	-	\$ 468	\$ 655	-	-		-	-
Allocated from Electric				1,073			1,073	1,073		1,073	1,073
Loan to W&S Operations	1,000						-	-		-	-
Sub-total	\$ 1,000	\$ 	\$	1,073	\$ 	\$ -	-	-		-	-
Ending balance	\$ 12,627	\$ 13,860	\$	12,787	\$ 13,255	\$ 13,910	\$ 12,627	\$ 13,255	\$	13,288	\$ 13,910

Observations:

• JEA is in the process of implementing a prepaid meter program which could reduce customer deposits at some future date.

Water and Sewer Debt Service Sinking Fund

For the Fiscal Quarter Ending December 31, 2016

Reserve/Fund Authorization: Bond Resolution

Metric: Accrued interest and principal currently payable on fixed and variable rate bonds pursuant to the Bond Resolutions

Definitions and Goals: JEA is required monthly to fund from revenues an amount equal to the aggregate of the Debt Service Requirement for senior and subordinated bonds for such month into this account. On or before such interest payment date, JEA shall pay out of this account to the paying agents the amount required for the interest and principal due on such date.

		Actual as of	f 12/31/	2016			F	ull Year							Projection		
	(Current				2017		2017		Pr	ior Year						
(In Thousands)	C	luarter	Yea	r -to-Date	I	orecast		Budget		,	Actual		<u>2018</u>		<u>2019</u>		<u>2020</u>
Opening Balance	\$	65,410	\$	65,410	\$	65,410		N/A		\$	67,720	\$	82,870	\$	82,725	\$	84,744
Additions:																	
Revenue fund deposits		28,596		28,596		119,016					97,077		119,433		122,454		122,763
Sub-total	\$	28,596	\$	28,596	\$	119,016	\$		-	\$	97,077	\$	119,433	\$	122,454	\$	122,763
Deductions:		·		<u> </u>							·		·		· · · · · ·		
Principal and interest payments		65,692		65,692		101,556		N/A			99,387		119,578		120,435		121,219
Sub-total	\$	65,692	\$	65,692	Ś	101,556	\$			Ś	99,387	\$	119,578	\$	120,435	\$	121,219
Ending Balance	\$	28,314	Ś	28,314	Ś	82,870		N/A		Ś	65,410	Ś	82,725	Ś	84,744	Ś	86,288

			Hi	storical					Stat	tistical		
(In Thousands)	<u>2012</u>	<u>2013</u>		<u>2014</u>	<u>2015</u>	<u>2016</u>	Low	I	Median		Mean	High
Opening Balance Additions:	\$ 80,936	\$ 81,675	\$	80,317	\$ 75,019	\$ 67,720	\$ -	\$	77,668	\$	64,278	\$ 81,675
Revenue fund deposits Bond funded interest	125,160	119,535		117,444	102,789	97,077	97,077 -		117,444 -		112,401 -	125,160 -
Sub-total Deductions:	\$ 125,160	\$ 119,535	\$	117,444	\$ 102,789	\$ 97,077	-		-		-	-
Principal and interest payments	124,421	120,893		122,742	110,088	99,387	99,387 -		120,893 -		115,506 -	124,421 -
Sub-total	\$ 124,421	\$ 120,893	\$	122,742	\$ 110,088	\$ 99,387	-		-		-	-
Ending balance	\$ 81,675	\$ 80,317	\$	75,019	\$ 67,720	\$ 65,410	\$ 65,410	\$	75,019	\$	74,028	\$ 81,675

Observations:

• September 30th ending balances are used to pay Oct 1st interest and principal payments.

• Timing differences occur due to the accrual of debt service during one fiscal year and the payment in the following fiscal year (primarily fixed rate principal and interest on Oct 1st of the following fiscal year).

Water and Sewer Debt Service Reserve Account

For the Fiscal Quarter Ending December 31, 2016

Reserve/Fund Authorization: Bond Resolution

Metric: 125% of average annual debt service on outstanding senior fixed and variable rate bonds plus subordinated fixed rate bonds as required by the Bond Resolutions

Definitions and Goals: This reserve will be funded, maintained and held for the benefit of bondholders as specified in the Supplemental Resolution authorizing the sale of the bonds to pay principal and/or interest on the bonds should revenues from operations not be sufficient for such purpose in accordance with the appropriate bond resolution. It is JEA's current practice to fund this reserve account with cash from the sale of bonds; however, revenues may be utilized to fund this reserve if necessary.

		Actual as of	f 12/31/	/2016			I	Full Year					Р	rojection		
		Current				2017		2017	F	rior Year						
(In Thousands)		Quarter	Yea	ar -to-Date	I	Forecast		Budget		Actual		<u>2018</u>		<u>2019</u>		<u>2020</u>
Opening Balance	\$	108,086	\$	108,086	\$	108,086		N/A	\$	108,849	\$	107,488	\$	107,488	\$	107,488
Additions:																
Construction reserve fund/bond issues						-		N/A		-						
Revenue fund						-		N/A		-						
Rounding						-										
Sub-total	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
Deductions:																
Revenue fund		598		598		598				763						
											_		_			
Sub-total	<u>Ş</u>	598	<u></u> \$	598	Ş	598	Ş	-	<u> </u>	763	Ş	-	Ş	-	Ş	-
Ending Balance	\$	107,488	\$	107,488	\$	107,488		N/A	\$	108,086	\$	107,488	\$	107,488	\$	107,488

			Hi	storical				Stati	stical		
	<u>2012</u>	<u>2013</u>		<u>2014</u>	<u>2015</u>	<u>2016</u>	Low	Median		Mean	High
Opening Balance	\$ 102,214	\$ 119,131	\$	119,915	\$ 116,829	\$ 108,849	\$ 102,214	\$ 116,829	\$	113,388	\$ 119,915
Additions:			-								
Construction reserve fund/bond issues	10,917	784					784	5,851		5,851	10,917
Revenue fund	6,000	3,821					3,821	4,911		4,911	6,000
Sub-total	\$ 16,917	\$ 4,605	\$	-	\$ -	\$ -	-	-		-	-
Deductions:											
Revenue fund		3,821		3,086	7,980	763	763	3,454		3,913	7,980
							-	-		-	-
					 	 	-	-		-	-
Sub-total	\$ -	\$ 3,821	\$	3,086	\$ 7,980	\$ 763					
Ending balance	\$ 119,131	\$ 119,915	\$	116,829	\$ 108,849	\$ 108,086	\$ 108,086	\$ 116,829	\$	114,562	\$ 119,915

Observations:

• In 2008, debt service reserve sureties downgraded and JEA began replacing those downgraded sureties with cash/investments as required by the bond resolutions. Sureties of \$149.8 million are still outstanding but are not eligible to be utilized as debt service reserve deposits per the Bond Resolutions.

Water and Sewer Renewal and Replacement (R&R) / Operating Capital Outlay (OCO)

For the Fiscal Quarter Ending December 31, 2016

Reserve/Fund Authorization: Bond Resolution, Article 21 of the City of Jacksonville Charter and Pricing Policy

Metric: Renewal and Replacement required to deposit from the revenue fund annually an amount equal to the greater of 10% of the prior year defined annual net revenues or 5% of the prior year defined gross revenues per JEA's Water and Sewer System bond resolutions. Operating Capital Outlay - by 2013 the goal is to fund all non-capacity capital expenditures.

Definitions and Goals: Pursuant to the Water and Sewer System bond resolutions and Article 21 of the City of Jacksonville Charter, JEA is required to deposit from the revenue fund annually an amount for Renewal and Replacement of system assets. According to the bond resolutions the amount is equal to the greater of 10% of the prior year defined annual net revenues or 5% of the prior year defined gross revenues. The funds shall be used for the purposes of paying the cost of extensions, enlargements or additions to, or the replacement of capital assets of the Electric System. In addition, as a portion of the base rate, JEA will recover from current revenue a formula driven amount for capital expenditures which is referred to as Operating Capital Outlay. This amount is calculated separately from the R&R deposit. In accordance with the Pricing Policy, by 2013, the objective is to fund an amount equal to all non-capacity capital expenditures with current year internally generated funds.

		Actual as of	12/31/	/2016			I	ull Year					Р	rojection	
	(Current				2017		2017		Pi	rior Year				
(In Thousands)	C	Quarter	Yea	ir -to-Date	I	Forecast		Budget			Actual	<u>2018</u>		<u>2019</u>	<u>2020</u>
Opening Balance	\$	76,020	\$	76,020	\$	76,020		N/A		\$	37,337	\$ 48,660	\$	43,793	\$ 17,530
Additions:															
R&R/OCO Contribution		32,893		32,893		106,924			-		124,574	130,975		109,385	110,363
Transfer from Capital Fds									-		-				
Other		1,853		1,853		10,467			-		30,889	8,600		8,600	8,600
Sub-total	\$	34,746	\$	34,746	\$	117,391	\$		-	\$	155,463	\$ 139,575	\$	117,985	\$ 118,963
Deductions:												 			
Capital Expenditures		30,183		30,183		144,677			-		116,674	144,442		144,248	125,774
Transfer to Capacity Fund		74		74		74			-		-				
Transfer to Construction Fund															
R&R/OCO Contribution									-		106	-			
Sub-total	\$	30,257	\$	30,257	\$	144,751	\$		-	\$	116,780	\$ 144,442	\$	144,248	\$ 125,774
Ending Balance	\$	80,509	\$	80,509	\$	48,660		N/A		\$	76,020	\$ 43,793	\$	17,530	\$ 10,719

			His	torical					Stati	istical		
	2012	<u>2013</u>		2014	<u>2015</u>	2016	Low	I	Median		Mean	High
Opening Balance	\$ 28,840	\$ 64,260	\$	78,689	\$ 59,295	\$ 37,337	\$ 28,840	\$	59,295	\$	53,684	\$ 78,689
Additions:												
R&R/OCO Contribution	76,157	91,245		48,373	62,793	124,574	48,373		76,157		80,628	124,574
Loans betw Capital Fds	-	-			22		-		-		7	22
Other (incl septic tank)	5,771	1,539		1,614	653	30,889	653		1,614		8,093	30,889
Sub-total	\$ 81,928	\$ 92,784	\$	49,987	\$ 63,468	\$ 155,463						
Deductions:												
Capital Expenditures	46,508	68,355		67,488	85,426	116,674	46,508		68,355		76,890	116,674
Loan Repayment	-	-		-			-		-		-	-
Transfer to Constr. Fund	-	10,000		1,893		106	-		1,000		3,000	10,000
Other (incl septic tank)	-	-		-	-	-	-		-		-	-
Sub-total	\$ 46,508	\$ 78,355	\$	69,381	\$ 85,426	\$ 116,780						
Ending balance	\$ 64,260	\$ 78,689	\$	59,295	\$ 37,337	\$ 76,020	\$ 37,337	\$	64,260	\$	63,120	\$ 78,689

Observations:

• Other includes the Septic Tank Phase-out project, Sale of Property, and the transfer of RSF - Environmental in FY 2016 - 2019

• Includes \$20 million for Maximum Annual Debt Service calculation.

• \$57 million is projected to be withdrawn from this capital balance in FY 2016-2017 to support the capital program with lower Net Revenues as planned with the June 2012 approved reduction in the October 1, 2012 rate increase.

Water and Sewer Capacity Fees / State Revolving Fund Loans

For the Fiscal Quarter Ending December 31, 2016

Reserve/Fund Authorization: Florida Statute and Rate Tariff

Metric: Tariff rate

Definitions and Goals: Capacity fees are charged to customers as a one- time fee for a new connection to the Water System and a one- time fee for a new connection to the Sewer System. Capacity charges may be used and applied for the purpose of paying costs of expansion of the Water and Sewer System or paying or providing for the payment of debt that was issued for the same purpose. In addition, the Water and Sewer System has received funds from the State Revolving Fund (SRF) program for the construction of water and wastewater treatment facilities. SRF loans are subordinated to all Water and Sewer System Revenue Bonds and Water and Sewer System Subordinated Revenue Bonds.

	Actual as of	i 12/31,	/2016			Ful	l Year				Pr	ojection	
	Current				2017	2	017	Р	rior Year				
(In Thousands)	Quarter	Yea	ar -to-Date	F	Forecast	Bu	udget		Actual	<u>2018</u>		<u>2019</u>	<u>2020</u>
Opening Balance	\$ 103,411	\$	103,411	\$	103,411	I	N/A	\$	90,912	\$ 75,921	\$	53,597	\$ 46,641
Additions:													
Capacity Fees	4,579		4,579		18,829		-		21,995	19,190		19,382	
State Revolving Fd Loan							-		-				
Transfer from R&R/OCO Fund	74		74		589		-		145	650		650	
Other							-		-				
Sub-total	\$ 4,653	\$	4,653	\$	19,418	\$	-	\$	22,140	\$ 19,840	\$	20,032	\$ -
Deductions:										 			
Capital Expenditures	4,820		4,820		46,908		-		9,648	42,164		26,988	
Other							-		-				
Sub-total	\$ 4,820	\$	4,820	\$	46,908	\$	-	\$	- 9,648	\$ 42,164	\$	26,988	\$ -
Ending Balance	\$ 103,244	\$	103,244	\$	75,921		N/A	\$	103,404	\$ 53,597	\$	46,641	\$ 46,641

			His	torical							Stati	istical		
(In Thousands)	2012	<u>2013</u>		<u>2014</u>		<u>2015</u>		<u>2016</u>	Low	I	Median		Mean	High
Opening Balance	\$ 41,025	\$ 45,454	\$	60,360	\$	76,887	\$	90,912	\$ 41,025	\$	60,360	\$	62,928	\$ 90,912
Additions: Capacity Fees	10,820	17,394		18,298		19,579		21,995	10,820		18,298		17,617	21,995
State Revolving Fd Loan	3,798	-		-					-		-		1,266	3,798
Loan Repayments	-	-		-		246		145	-		-		78	246
Other	-	12		-		5		7	-		5		5	12
Sub-total	\$ 14,618	\$ 17,406	\$	18,298	\$	19,830	\$	22,147						
Deductions:					-		-							
Capital Expenditures	7,096	2,270		1,758		5,805		9,648	1,758		5,805		5,315	9,648
Loans betw Capital Fds	-								-		-		-	-
Other	3,093	230		13					13		230		1,112	3,093
Sub-total	\$ 10,189	\$ 2,500	\$	1,771	\$	5,805	\$	9,648						
Ending balance	\$ 45,454	\$ 60,360	\$	76,887	\$	90,912	\$	103,411	\$ 45,454	\$	76,887	\$	75,405	\$ 103,411

Observations:

Water and Sewer Environmental

For the Fiscal Quarter Ending December 31, 2016

Reserve/Fund Authorization: Pricing Policy

Metric: Unit tariff rates times consumption

Definitions and Goals: The Environmental Charge will be applied to all water, sewer, irrigation and non bulk user reclaimed consumption. The environmental charge revenue will be collected from customers to partially offset current and future environmental and regulatory needs as specified in the Pricing Policy for specific environmental and regulatory programs.

		Actual as of	f 12/31/2	2016			Full `	Year					Р	rojection	
	C	urrent				2017	20	17	Pr	ior Year					
(In Thousands)	Q	uarter	Year	-to-Date	F	orecast	Buc	lget		Actual		<u>2018</u>		<u>2019</u>	<u>2020</u>
Opening Balance	\$	2,659	\$	2,659	\$	2,659	N	/A	\$	-	\$	294	\$	-	\$ -
Additions:											-				
Environmental Contributions		2,374		2,374		13,692		-		15,539		11,116		12,148	13,611
Loans betw Capital Fds								-		-					
Other								-		-					
Sub-total	\$	2,374	\$	2,374	\$	13,692	\$	-	\$	15,539	\$	11,116	\$	12,148	\$ 13,611
Deductions:															
Capital Expenditures		3,577		3,577		16,057		-		12,880		11,410		12,148	13,611
Septic Tank Phase Out								-		-					
Other		-						-		-					
Sub-total	\$	3,577	\$	3,577	\$	16,057	\$	-	\$	12,880	\$	11,410	\$	12,148	\$ 13,611
Ending Balance	\$	1,456	\$	1,456	\$	294	N	/A	\$	2,659	\$	-	\$	-	\$ -

		Historical											Statistical								
(In Thousands)	2012		<u>2013</u>		<u>2014</u>		<u>2015</u>		2016		Low		Median		Mean			High			
Opening Balance	\$	9,795	\$	(8,158)	\$	(9,857)	\$	5,299	\$		\$	(9,857)	\$	-	\$	(584)	\$	9,795			
Additions:																					
Environmental Contributions		21,747		21,193		21,018		22,056		15,539		15,539		21,193		20,311		22,056			
Loans betw Capital Fds		-		-		-						-		-		-		-			
Other												-		-		-		-			
Sub-total	\$	21,747	\$	21,193	\$	21,018	\$	22,056	\$	15,539											
Deductions:																					
Capital Expenditures		39,700		22,892		5,862		7,318		12,880		5,862		12,880		17,730		39,700			
Septic Tank Phase Out								203				203		203		203		203			
Other								19,834				19,834		19,834		19,834		19,834			
Sub-total	\$	39,700	\$	22,892	\$	5,862	\$	27,355	\$	12,880											
Ending balance	\$	(8,158)	\$	(9,857)	\$	5,299	\$	-	\$	2,659	\$	(9,857)	\$	-	\$	(2,011)	\$	5,299			

Observations:

Water and Sewer Construction / Bond Fund

For the Fiscal Quarter Ending December 31, 2016

Reserve/Fund Authorization: Bond Resolution

Metric: Capital expenditures per year minus internal funding available

Definitions and Goals: JEA maintains a senior and subordinated construction fund of which bonds proceeds are deposited and used for the payment of the costs of additions, extensions and improvements to the Water and Sewer System.

	4	Actual as of	f 12/31/2	016			Full Year			Projection						
	Current				2017		2017		Prior Year							
(In Thousands)	Qu	arter	Year -to-Date		Forecast		Budget		Actual		<u>2018</u>		2019		020	
Opening Balance	\$	152	\$	152	\$	152	N/A	\$	664	\$	-	\$	-	\$	-	
Additions:																
Bond Proceeds						-		-	-							
Line of Credit						-		-	-							
Transfer from R&R/OCO Fund								-	-							
Other								-	17							
Sub-total	\$	-	\$	-	\$	-	\$	- \$	17	\$	-	\$	-	\$	-	
Deductions:																
Capital Expenditures								-	-							
Bond Proceeds								-	-							
Other						152		-	529							
Sub-total	\$	-	\$	-	\$	152	\$	- \$	529	\$	-	\$	-	\$	-	
Ending Balance	\$	152	\$	152	\$	-	N/A	\$	152	\$	-	\$	-	\$	-	

					Hist	torical	Statistical										
(In Thousands)	2012		<u>2013</u>		<u>2014</u>		<u>2015</u>		<u>2016</u>		Low	Median		Mean			High
Opening Balance	\$	29,622	\$	7,419	\$	2,305	\$	326	\$	664	\$ 326	\$	2,305	\$	8,067	\$	29,622
Additions:																	
Bond Proceeds		-		486		-					-		-		162		486
Line of Credit		-		-		-					-		-		-		-
Loans/trnsf btw CapFds		-		10,000		1,893					-		1,893		3,964		10,000
Other		-		3		476		344		17	-		17		168		476
Sub-total	\$	-	\$	10,489	\$	2,369	\$	344	\$	17							
Deductions:																	
Capital Expenditures		20,243		14,855		3,784		6			6		9,320		9,722		20,243
Bond Proceeds		-		411		48					-		48		153		411
Line of Credit		-		-		-					-		-		-		-
Loans/trnsf btw CapFds		-		337		516					-		337		284		516
Other		1,960		-		-				529	-		265		622		1,960
Sub-total	\$	22,203	\$	15,603	\$	4,348	\$	6	\$	529							
Ending balance	\$	7,419	\$	2,305	\$	326	\$	664	\$	152	\$ 152	\$	664	\$	2,173	\$	7,419

Observations:

• JEA's philosophy has been to borrow bond funds on a "just-in-time" basis. Staff has used line of credit borrowings and loans between capital funds to decrease borrowing costs.

• No new debt issues for the FY 2017-2019 projection.