State of Florida



Public Service Commission

CAPITAL CIRCLE OFFICE CENTER • 2540 SHUMARD OAK BOULEVARD TALLAHASSEE, FLORIDA 32399-0850

-M-E-M-O-R-A-N-D-U-M-

DATE:

February 28, 2018

TO:

Carlotta S. Stauffer, Commission Clerk, Office of Commission Clerk

FROM:

Sonica C. Bruce, Economic Analyst, Division of Economics

RE:

Docket No. 20170223-SU - Application for establishment of wastewater

allowance for funds prudently invested (AFPI) charges in Highlands, Lake,

Marion, Pasco, and Pinellas Counties, by Utilities, Inc. of Florida

Please place the attached document in the above-referenced docket. The document reflects the allowance for funds prudently invested calculations for LUSI wastewater based on the non used and useful costs associated with the wastewater treatment plant pursuant to Order No. PSC-2017-0361-FOF-WS and accrued beginning January 1, 2016.

COMMISSION

	S, INC. OF FLORIDA -LUSI NO. 20170223-SU	SCHEDULE 1-A					
	ce for Funds Prudently Invested on of Carrying Costs for Each ERC						
Informatio	on Needed						
1.	Cost of Qualifying Assets	\$ 1,949,211					
2.	Capacity of Qualifying Assets	411,788 GPD					
3.	Number of Future Customers	1,471 ERC					
4.	Annual Depreciation Expense	\$ 134,553					
5.	Rate of Return	7.09%					
6.	Weighted Cost of Equity	4.36%					
7.	Federal Income Tax Rate	21.00%					
8.	State Income Tax Rate	5.50%					
9.	Annual Property Tax	\$ 1,742					
10.	Other Costs	\$ 0					
11.	Depreciation Rate of Assets	6.90%					

2016

12.

Test Year

UTILITIES, INC. OF FLORIDA -LUSI DOCKET NO. 20170223-SU

SCHEDULE 1-B

Allowance for Funds Prudently Invested Calculation of Carrying Costs for Each I	Q x Q x Q x Q x Q x Q x Q x Q x Q x Q x			
Cost of Quailfying Assets: Divided By Future ERC:	\$	1,949,211 1,471	Annual Depreciation Expense: Future ERC's:	\$ 134,553 1,471
Cost/ERC: Multiply By Rate of Return:	\$	1,325.39 7.09%	Annual Depr. Cost per ERC:	\$ 91.49
Annual Return Per ERC:	\$ =	93.99	Annual Propery Tax Expense: Future ERC's:	\$ 1,742 1,471
Annual Reduction in Return: (Annual Depreciation Expense per ERC Times Rate of Return)	\$ =	6.49	Annual Prop. Tax per ERC:	\$ <u>1.18</u>
Federal Tax Rate: Effective State Tax Rate:		21.00% 4.35%	Weighted Cost of Equity: Divided by Rate of Return:	4.36% 7.09%
Total Tax Rate:	=	25.35%	% of Equity in Return:	61.48%
Effective Tax on Return: (Equity % Times Tax Rate)	:=	15.58%	Other Costs: Future ERC's:	\$ 0 1,471
Provision For Tax: (Tax on Return/(1-Total Tax Rate))	-	20.87%	Cost per ERC:	\$0.00

Allowance for Funds	Prudently Invested
Calculation of Carryi	ng Cost Per ERC Per Year:

		2016		2017		2018		2019		2020
Unfunded Other Costs:	\$	0.00	\$	0.00	\$	0.00	\$	0.00	\$	0.00
Unfunded Annual Depreciation:		91.49	*	91.49		91.49		91.49	Ψ	91.49
Unfunded Property Tax:		1.18		1.18		1.18		1.18		1.18
Subtotal Unfunded Annual Expense:	\$	92.68	\$	92.68	\$	92.68	\$	92.68	\$	92.68
Unfunded Expenses Prior Year:		0.00		92.68		185.35		278.03	(0.00)	370.70
Total Unfunded Expenses:	\$_	92.68	\$_	185.35	\$_	278.03	\$_	370.70	\$_	463.38
Return on Expenses Current Year:		6.57		6.57		6.57		6.57		6.57
Return on Expenses Prior Year:		0.00		6.57		13.14		19.72		26.29
Return on Plant Current Year:		93.99		87.50		81.01		74.52		68.03
Earnings Prior Year:		0.00		93.99		194.73		302.69		418.39
Compound Earnings from Prior Year:		0.00		6.67		13.81		21.46		29.67
Total Compounded Earnings:	\$	93.99	\$	194.73		302.69	-	418.39	10.000	542.38
Earnings Expansion Factor for Tax:		1.21		1.21		1.21		1.21		1.21
Revenue Required to Fund Earnings:	\$	113.61	\$	235.38	\$	365.87	\$	505.73	\$	655.59
Revenue Required to Fund Expenses:		92.68		185.35	_	278.03	-	370.70		463.38
Subtotal:	\$	206.29	\$	420.73	\$	643.90	\$	876.43	\$	1,118.97
Divided by Factor for Regulatory Assessment Fee		0.955	C.55	0.955	1983	0.955	70%	0.955	<i>∵.</i> ₹*.	0.955
ERC Carrying Cost for 1 Year:	\$_	216.01	\$_	440.55	\$_	674.24	\$_	917.73	\$_	1,171.70

UTILITIES, INC. OF FLORIDA -LUSI DOCKET NO. 20170223-SU

SCHEDULE 1-D

Allowance for Funds Prudently Invested Calculation of Carrying Cost Per ERC Per Month:

	2016	2017	2018	2019	2020	2021
January	18.00	234.72	460.02	694.53	938.89	1,171.70
February	36.00	253.43	479.50	714.82	960.06	1,171.70
March	54.00	272.14	498.97	735.11	981.22	1,171.70
April	72.00	290.86	518.45	755.40	1,002.39	1,171.70
May	90.00	309.57	537.92	775.69	1,023.55	1,171.70
June	108.00	328.28	557.40	795.99	1,044.71	1,171.70
July	126.01	346.99	576.87	816.28	1,065.88	1,171.70
August	144.01	365.70	596.34	836.57	1,087.04	1,171.70
September	162.01	384.42	615.82	856.86	1,108.20	1,171.70
October	180.01	403.13	635.29	877.15	1,129.37	1,171.70
November	198.01	421.84	654.77	897.44	1,150.53	1,171.70
December	216.01	440.55	674.24	917.73	1,171.70	1,171.70