

FLORIDA PUBLIC SERVICE COMMISSION

Docket No. 951056-WS

PALM COAST UTILITY CORPORATION RATE CASE - 1995 YEAR-END TEST YEAR EFFLUENT REUSE RATE ANALYSIS

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The purpose of this study is to establish a rate for effluent reuse generally applicable for irrigation service. The study produces an effluent reuse rate of \$0.67 per 1,000 gallons, which is calculated on the basis of an allocation of the Company's proforma operations for the test year ended December 31, 1995.

Each revenue requirement component has been allocated to "Effluent Reuse" and "Other." The "Effluent Reuse" category includes items of investment and expenses associated with the 6.0 MG effluent storage tank and 1.0 MGD RIB necessary to provide effluent reuse water for irrigation purposes. The "Other" category includes all investment and expenses associated with the collection and treatment of wastewater.

Table A contains a summary of the allocation of each major revenue requirement component as described in column A. The allocations to Effluent Reuse (column D) and Other (column E) are explained by either a separate support table or an allocation symbol (column C). Explanations of the allocation symbols are shown on Table G. As reflected in column D, the total revenue requirement attributed to effluent reuse is \$506,593. This figure has been divided by 760,832 thousand gallons of effluent in order to calculate a rate of \$0.67 per thousand gallons; this calculation is also shown on Table A.

Table B contains the Rate Base allocation which, as reflected on Table A, symbol C, is used to allocate the revenue requirement components related to Income Taxes and Net Operating Income. Table

B has a format which is similar to Table A. The rate base components are described in column A. The total used and useful proforma 12/31/95 figures are set forth in column B, and the allocations to Effluent Reuse are set forth in column C. The allocation of each rate base component is supported by either a table or an allocation symbol (column C).

Table C contains the allocation to Effluent Reuse of the used and useful plant in service by primary plant account. Column F refers to allocations symbols which are explained on Table G.

Tables D, E and F contain the allocations of Accumulated Depreciation, Depreciation Expense and Taxes-Other Than Income Taxes. Once again, the allocation symbols are explained on Table G.

The information and data used to develop the allocation symbols (Table G) were obtained from an examination of the utility plant accounts and information furnished by the Company with respect to both the utilization of the utility's facilities and estimates of labor and other operating expenses. Where there were items of investment or expense for which no direct allocation could be made, an allocation was made based on a weighing of other allocations.

Summary of Revenue Requirement Allocations

Line No.	Description (A)	Used & Useful Pro Forma 12/31/95 (B)	Allocation Symbol or Table (C)	Effluent Reuse (D)	Other (E)
1	Operation & Maintenance Expense	\$1,968,651	0	\$28,195	\$1,940,456
2 3 4	Depreciation Expense net of CIAC Amort.	764,080	Table E	135,666	628,414
5	Amortization, CIAC Tax Gross-up	(58,834)	Ь	D	(58,834)
7	Taxes Other Than Income	445,609	Table F	22,797	422,812
9 10	Provision for Income Taxes	369,490	С	66,139	303,351
11 12	Net Operating Income	1,417,853	С	253,796	1,164,057
13 14	Revenue Requirement	\$4,906,849		\$506,593	\$4,400,256
15	Percentage	100.00%		10.32%	89.68%

Calculation of Effluent Rat	ie
Effluent Reuse Revenue Requirement	\$506,593
Total Effluent Flow for 1995 (1,000 gallons)	760,832
Rate Per 1000 gallons	\$0.67

Rate Base Allocation

Line No.	Description (A)	Used & Useful Pro Forma 12/31/95 (B)	Allocation Symbol or Table (C)	Effluent Reuse (D)	Other (E)
1	Plant in Service Land & Land Rights	\$39,305,454	Table C	\$2,935,977	\$36,369,477
2 3	Less: Accumulated Depreciation	(12,334,254)	Table D	(66,889)	(12,267,365)
4 5 6	Less: CIAC	(17,508,166)	b	0	(17,508,166)
7	Accumulated Amortization of CIAC	5,212,312	b	0	5,212,312
8 9 10	Advances for Construction	(584,539)	b	0	(584,539)
11	Net Debit Deferred Taxes (Used)	1,940,403	b	0	1,940,403
12 13	Total Rate Base	\$16,031,210		\$2,869,088	\$13,162,122
14 15	Percentage	100.00%	С	17.90%	82.10%

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Plant in Service by Primary Account

			· · · · · · · · · · · · · · · · · · ·		Used			
1				Non-Used	& Useful			[
ine	Account		Pro Forma	& Useful	Pro Forma	Allocation	Effluent	
No.	Number	Description	12/31/95	Amount	12/31/95	Symbol	Reuse	Other
	(A)	(8)	(C)	(D)	(E)	(F)	(G)	(H)
]	l		
1			\$6,130	\$0	\$6,130	d	\$236	\$5,894
2	351.1	Organization			2,684	d	103	2,581
3		Franchises	2,684	0	121,386	d	4,668	116,718
4	389.1	Other Plant & Misc. Equipment COLLECTION PLANT	121,386			_		
6	353.2	Land & Land Rights	0	0	0	b	0	6,560
7	354.2	Structures & Improvements	6,560	0	6,560	b	0	0,000
8	360.2	Collection Sewers - Force	0) 0	0	b	0	
9	361.2	Collection Sewers – Gravity	35,493,443	14,538,114	20,955,329	b	0	20,955,329
10	362.2	Special Collecting Structures) 0] 0	0	b	0	
11	363.2	Services to Customers	2,964,847	1,273,698	1,691,149	b	0	1,691,149
12	364.2	Flow Measuring Devices) 0] 0	0	b	0	
13	365.2	Flow Measuring Installations	0	0	0	b	0	
14	389.2	Other Plant & Misc. Equipment	0	0	0	b	0	
15		SYSTEM PUMPING PLANT			007.040	L		007.049
16	353.3	Land & Land Rights	207,043	0	207,043	b	0	207,043
17	354.3	Structures & Improvements	101,995	43,735	58,260	b	0	58,260
18	370.3	Receiving Wells	0	0	0	b	0]
19	371.3	Pumping Equipment	4,233,215	1,815,203	2,418,012	Þ	0	2,418,012
20		Other Plant & Misc. Equipment	0	0	0	b	0	j c
21		TREAT, AND DISPOSAL PLANT			1			
22	353.4	Land & Land Rights	946,489	0	946,489	a	560,137	386,352
23	354.4	Structures & Improvements	6,402,440	1,518,658	4,883,782	b	0	4,883,782
24	380.4	Treatment & Disposal Equip.	6,707,269	857,080	5,850,189	a	2,288,998	3,561,191
25		Plant Sewers	0	0	0	b	0	
26		Outfall Sewer Lines	l o	0	0	b	0	ļ
27		Other Plant & Misc. Equipment	ŏ	Ő	Ó	b	Ō	i d
28		GENERAL PLANT	-	-		-	-	_
29		Land & Land Rights	0	lo	0	d	0	
30		Structures & Improvements	534,224	0	534,224	ď	20,542	513,682
31	390.5	Office Furniture & Equipment	391,033	l õ	391,033	ď	15,036	375,997
32		Transportation Equipment	678,806	0	678,806	d	26,102	652,704
33		Stores Equipment	6,057	0	6,057	d	233	5,824
34		Tools, Shop & Garage Equip.	188,947	0	188,947	d	7,266	181,681
35			· ·	0	20,739	d	7,200	19,942
		Laboratory Equipment	20,739	-		d		
36	395.5	Power Operated Equipment	253,942	0	253,942	-	9,765	244,177
37	396.5	Communication Equipment	52,925	0	52,925	d	2,035	50,890
38		Miscellaneous Equipment	1,527	. 0	1,527	d	59	1,468
39	398.5	Other Tangible Plant	0	0	0	d	0	0
40		A - b - c - c - d - b d - 1	40.700		40 700	<u>.</u>		10 700
41		Advanced Mains	13,789	0	13,789	b	0	13,789
42		Advanced Mains	16,452	0	16,452	b	0	16,452
43 44	106.0	Undistributed Gen. Plant	0	0	U	b	U U	i u
45	300,0	Future Use	179,081	179,081	0	ь	0	0
46		Advanced Property	0	0	Ō	b	Ő	0
47		Total	\$50 521 002	\$20 225 550	\$30 205 454		¢2025077	836 360 477
48 49		rotar	∳0a'031'0≾3	\$20,225,569	\$33,303,4 34		\$2,935,977	\$36,369,477
50		Percentage			100.00%		7.47%	92.53%

Accumulated Depreciation Allocation

				Alam Ilood	Used			
			Dra Earma	Non-Used	& Useful Pro Forma	Allocation	Effluent	
	Account		Pro Forma	& Useful		Symbol	Reuse	Other
No.		Description	12/31/95	Amount	12/31/95	(F)	(G)	(H)
	(A)	(B)	(C)	(D)	(E)	(F)	(0)	
1		INTANGIBLE PLANT						
2	351.1	Organization	\$4,874	\$0	\$4,874	d	\$14	\$4,860
3	352.1	Franchises	2,150	0	2,150	d	6	2,144
4 5	389.1	Other Plant & Misc. Equipment COLLECTION PLANT	101,895	0	101,895	d	290	101,60
6	353.2	Land & Land Rights	0	0	0	b	0	1
7	354.2	Structures & Improvements	2,948	0	2,948	b	0	2,94
8	360.2	Collection Sewers - Force	0	0	0	b	0	[
9	361.2	Collection Sewers - Gravity	11,844,229	4,851,396	6,992,833	b	0	6,992,83
10	362.2	Special Collecting Structures	0	0	0	b	0	
11	363.2	Services to Customers	1,286,818	552,817	734,001	b	0	734,00
12	364.2	Flow Measuring Devices	0	0	0	b	0	
13	365.2	Flow Measuring Installations	i o	, o	Ó	b	0	
14	389.2	Other Plant & Misc. Equipment	Í	0	o o	b	Ō	1
15		SYSTEM PUMPING PLANT	_		_			
16	353.3	Land & Land Rights	43	ļ O	43	Ь	0	
17	354.3	Structures & Improvements	44,381	19,030	25,351	b	0	25,35
18	370.3	Receiving Wells	0	0	0	b	0	
19	371.3	Pumping Equipment	1,939,909	831,833	1,108,076	Þ	0	1,108,07
20	389.3	Other Plant & Misc. Equipment	0	0	0	b	0	
21		TREAT. AND DISPOSAL PLANT		1				
22	353.4	Land & Land Rights	40	0	40	b	0	
23	354.4	Structures & Improvements	1,329,271	315,303	1,013,968	b	0	1,013,96
24	380.4	Treatment & Disposal Equip.	1,480,907	189,236	1,291,671	а	63,583	1,228,08
25	381.4	Plant Sewers	0	0	0	b	0	
26	382.4	Outfall Sewer Lines	0	0	0	b	0	}
27	389.4	Other Plant & Misc. Equipment	0	0	0	b	0	
28		GENERAL PLANT						ł.
29	353.5	Land & Land Rights	1 0	0	0	ď	0	}
30	354.5	Structures & Improvements	137,789	Ō	137,789	d	392	137,39
31	390.5	Office Furniture & Equipment	201,390	Ō	201,390	d	573	200,81
32	391.5	Transportation Equipment	497,925	ō	497,925	ď	1,417	496,50
33		Stores Equipment	4,189	Ō	4,189	d	12	
34		Tools, Shop & Garage Equip.	70,616	Ő	70,616	d	201	70,41
35	394.5	Laboratory Equipment	9,997	ō	9,997	d	28	9,96
36		Power Operated Equipment	93,183	Ō	93,183	ď	265	92,91
37		Communication Equipment	36,599	ŏ	36,599	d	104	36,49
38	397.5	Miscellaneous Equipment	1,540	o o	1,540	d	4	1,530
39	398.5	Other Tangible Plant	0	ŏ	0	đ	0	1,000
40	000.0			Ū	Ű	4	•	
41	450.0	Advanced Mains	2,491	0	2,491	Ь	0	2,491
42		Advanced Mains	685	0	685	b	Ő	685
43		Undistributed Gen. Plant		0		b	0	
44	100.0		J	Ū	Ű		, U	
45		Future Use	0	0	0	ь	0	(
46	107.0	Advanced Property	0	0	0	b	0	
47 48		Total	\$19,093,869	\$6,759,615	\$12,334,254		\$66,889	\$12,267,365
49 50		Percentage			100.00%		0.54%	99.46%

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Depreciation Expense Allocation

Line No.	Account Number	Description	Pro Forma 12/31/95	Non-Used & Useful Amount	Used & Useful Pro Forma 12/31/95	Allocation Symbol	Effluent Reuse	Other
	(A)	(B)	(0)	(D)	(E)	(F)	(G)	((H)
				· · · · · · · · · · · · · · · · · · ·				
1		INTANGIBLE PLANT						
2	351.1	Organization	\$204	\$0	\$204	d	\$11	\$193
3	352.1	Franchises	84	0	84	d	5	79
4	389.1	Other Plant & Misc. Equipment	5,052	0	5,052	d	274	4,778
5		COLLECTION PLANT				L .		
6	353.2	Land & Land Bights	204	0	0 204	b b	0	204
7	354.2	Structures & Improvements	204	0	204	b	0	204
8	360.2	Collection Sewers - Force	-	357,725	515,626	b	0	515,626
9	361.2	Collection Sewers – Gravity	873,351		515,620	b		515,620
10	362.2	Special Collecting Structures	0	0 33,514	44,498	b		44,498
11	363.2	Services to Customers	78,012	33,514	44,430	b		44,430
12		Flow Measuring Devices		0	0	b	0	
13	365.2	Flow Measuring Installations		0		b		
14	389.2	Other Plant & Misc, Equipment			0	U U	0	ļ
15	050.0	SYSTEM PUMPING PLANT						
16	353.3	Land & Land Rights	0 3,180	0	0 1,816	b b	0	1,816
17	354.3	Structures & Improvements	I	1,364	1,810			
18		Receiving Wells	0 233,472	0 100,113	133,359	b b		133,359
19	371.3	Pumping Equipment	233,472	100,113	103,359	b b	0	133,359
20	389.3	Other Plant & Misc. Equipment	0	U	U U	U	Ū	i u
21	353.4	TREAT, AND DISPOSAL PLANT	0	0	0	Ъ	0	
22		Land & Land Rights	200,348	47,522	152,826			150.900
23	354.4 380.4	Structures & Improvements	370,836			b	0	152,826
24	381.4	Treatment & Disposal Equip.	370,838	47,387	323,449	a b	127,167	196,282
25 26	382.4	Outfall Sewer Lines	0	0	0			0
20 27			0	0	0	b		
28	389.4	Other Plant & Misc. Equipment GENERAL PLANT	0	U	U	b	0	"
29	353.5	Land & Land Rights	o	0	o	đ	0	
30	354.5	Structures & Improvements	13,213	0	13,213	d	717	12,496
31	390.5	Office Furniture & Equipment	30,011	0	30,011	d	1,627	28,384
32	391.5	Transportation Equipment	79,610	0	79,610	d	4,317	75,293
33	392.5	Stores Equipment	247	Ő	247	đ	13	234
34	-	Tools, Shop & Garage Equip.	8,869	0	8,869	d	481	8,388
35	394.5	Laboratory Equipment	1,410	õ	1,410	d	76	1,334
36		Power Operated Equipment	13,990	õ	13,990	d	759	13,231
37		Communication Equipment	4,037	õ	4,037	d	219	3,818
38	397.5	Miscellaneous Equipment	0	Ō	0	d	0	0,0,0
39		Other Tangible Plant	ŏ	õ	õ	a	Ő.	Ő
40				Ű	Ŭ	- 1	Ŭ	Ŭ
41	450.0	Advanced Mains	348	0	348	ь	0	348
42		Advanced Mains	384	õ	384	b	õ	384
43		Undistributed Gen. Plant	0	Ō	0	b	ō	0
44				_	_	_	-	•
45	300.0	Future Use	0	0	0	Ь	0	0
46	107.0	Advanced Property	0	0	0	b	ŏ	Ŏ
47 [(ł				ľ	•	
48		Subtotal	\$1,916,862	\$587,625	\$1,329,237	4	\$135,666	\$1,193,571
19		Less: Amortization of CIAC	1,625,604	1,060,447	565,157	Ь	0	565,157
0						F		
51		Totat	291,258	(472,822)	764,080		135,666	628,414
52							1	
53		Percentage			100.00%		17.76%	82.24%

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Allocation of Taxes, Other Than Income Tax

Line No.	Description (A)	Total (B)	Allocation Symbol (C)	Effluent Reuse (D)	Other (E)
1	Regulatory Assesment Fees	\$220,808	а	\$22,797	\$198,011
23	Payroll Taxes	77,706	Ь	0	77,706
4 5	Real Estate & Personal Property	143,671	Ь	0	143,671
67	Other	3,424	b	0	3,424
8 9	Total	\$445,609	1	\$22,797	\$422,812
10 11	Percentage	100.00%		5.12%	94.88%

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Effluent Reuse Allocation Symbols

			<u></u>	· · ···		<u> </u>	
Line	Allocation					Allocation	
No.	Symbols	(Factor			
						•	
1	a	These items are allocated by dire	[•			
2	6	These items are not necessary fo	to not	0.00%			
3	Ъ	impact effluent costs.	I providing and	ent service und		0.0070	
45						1	
6	С	Items bearing this symbol are allo	ocated based or	n the relationship	of effluent	17.90%	
7		reuse rate base to total rate base	•				
8		Total Rate Bas			16,031,210	1	
9		Effluent Reuse	Related Rate Ba	350	2,869,088		
10	d	Items bearing this symbol are allo	cated based or	a 50% weighin	n of all	**	
11 12	ŭ	other items.		ru sow worginni	goran		
13						j	
14	е	This direct allocation to Operation	n and Maintenar	nce is described	below.	2.40%	
15	_	•					
16				Effulent R			
17			Total	Amount	%		
18	i	Sower Operating Solarian	722,294	10,048	1.39%		
19		Sewer Operating Salaries (based on employee reports)	122,234	10,040	0,60.1		
20 21		(based off employee reports)					
22		Admin, & General Salaries	513,748	7,147	1.39%		
23		(based on sewer oper. salaries)					
24							
25		Chemicals	27,731	11,000	39.67%		
26		(based on chlorine expense)					
27		Data Casa Evagada	27 600	3,000	7.96%		
28 29		Rate Case Expense	37,688	3,000	7.50%		
30		Total	1,301,461	31,195	2.40%		
31							
32							
33							
34							
35							
36							
38							
39		* Effluent Reuse amounts are ca	Iculated individu	ually.			
40		** Calculated separately for related schedules					