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10	REBUTTAL TESTIMONY OF WILLIAM C. GOUCHER, P.E.
11	BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION
12	ON BEHALF OF
13	SOUTHERN STATES UTILITIES, INC.
14	DOCKET NO. 950495-WS
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DOCUMENT NUMBER-DATE 03393 MAR 21 & FPSC-RECORDS/REPORTING 1 Q. WHAT IS YOUR NAME AND BUSINESS ADDRESS?

- A. My name is William C. Goucher, P.E., and my
 business address is 1000 Color Place, Apopka,
 Florida 32703.
- 5 Q. WHAT IS YOUR POSITION WITH SOUTHERN STATES 6 UTILITIES, INC.?
- 7 A. I am a Senior Project Engineer in the Operations
 8 and Engineering Department.

9 Q. WHAT IS YOUR EDUCATIONAL BACKGROUND AND WORK 10 EXPERIENCE?

11 Α. I received a Bachelor of Science in Engineering 12 degree from the University of South Florida in 1972 13 with a major in Structures, Materials and Fluids. 14 In 1976, I received a Master of Science degree from 15 Florida Technological University (now the 16 University of Central Florida) in Environmental 17 Engineering.

18 Following the receipt of my Master's degree, I 19 was employed in a consulting engineering capacity 20 for the better part of the next 15 years. I began 21 as a project engineer with Dawkins & Associates, 22 Inc. on various 201 Facility Planning efforts, 23 involving gathering and evaluating data and 24 providing environmental and economic analyses of 25 feasible design alternatives, plus preliminary

Later I advanced into a design 1 engineering. 2 engineering role for various wastewater pumping station/force main systems, rehabilitation of 3 4 various gravity interceptors and pumping stations, 5 and wastewater treatment plant designs. At Boyle 6 Engineering Corporation, I was the design engineer 7 for the Water Conserv II distribution network for 8 citrus irrigation of reclaimed water and for 9 treatment plant upgrade and expansion. With both 10 Boyle and with Post, Buckley, Schuh & Jernigan, I 11 was a project manager for various treatment plant 12 upgrading and expansions, effluent storage and 13 pumping facilities, transmission pipelines, and 14 various effluent disposal systems.

15 From 1992 to 1994, as City Engineer/Assistant 16 the Public Works Director for the City of 17 Casselberry, Florida, I managed the Engineering 18 Division of Public Works Department. As such, I 19 was responsible for the engineering design of 20 various lift stations, sanitary sewers, water 21 mains, and drainage systems; for technical review 22 of water and wastewater design work by outside 23 consultants; for the operating and capital 24 improvements budget; as well as the day-to-day 25 engineering input for all phases of city government.

As the West Region Engineer for Southern 1 States Utilities since August 1994, I manage the 2 engineering capital projects in a seven-county 3 region containing 27 water and 15 wastewater 4 systems. As such, I am responsible for preparing 5 managing capital budgets and schedules, 6 and overseeing consulting engineering firms and their 7 designs, and continuing that project management 8 9 through construction and start-up.

10 Q. WHAT ARE YOUR PROFESSIONAL AFFILIATIONS?

A. I am a member of the Water Environment Federation
and the Florida Pollution Control Association.

13 Q. HAVE YOU EVER TESTIFIED BEFORE A REGULATORY AGENCY?
14 A. No, I have not.

15 Q. WHAT IS THE PURPOSE OF YOUR REBUTTAL TESTIMONY?

16 During customer service hearings, several customers Α. expressed doubt that the majority of plant being 17 18 placed into service by SSU was to fulfill safety or 19 Sugarmill Woods Witnesses regulatory mandates. 20 Bertram and Hansen also submitted pre-filed 21 testimony raising similar questions. It appears 22 from their testimony that the witnesses are 23 assuming that "regulatory mandate" is synonymous 24 with "environmental justification". Although a 25 regulatory mandate may have an environmental

justification, it is not always the case. Attached 1 as Exhibit _____ (WCG-1) is a schedule identifying 2 the regulatory mandate projects placed into service 3 for the service areas under my responsibility. 4 This exhibit also identifies the reasons each 5 project was performed and the safety or regulatory 6 mandate for the project. The only specific projects 7 which any outside witness have taken exception to 8 are the potable water ground storage tank to be 9 10 completed for the Sugarmill Woods service area, and 11 the Sugarmill Woods wastewater treatment plant 12 improvements.

Sugarmill Woods' witness Buddy L. Hansen has 13 14 pre-filed testimony which, on the one hand suggests 15 that there should be no margin reserve because 16 SSU's investments are for growth (page 15, line 20) 17 but on the other hand suggests that the ground 18 storage tank should be a 1 MG tank instead of a .5 MG tank because, (1) a 0.5 MG tank is "probably" 19 20 inadequate to meet the County fire flow 21 requirements (page 16, line 22), and (2) because of 22 "economies of scale" (page 17, line 3). While SSU 23 agrees that economies of scale would justify 24 construction of the larger tank, present FPSC 25 policies regarding "used and useful" percentages

discourage this practice. Although the April 1992 1 Five Year Capital Requirements Plan indicated a 1.0 2 MG tank to be designed and constructed in 1995 and 3 1996, a hydraulic analysis performed as part of the 4 master planning effort later that year recommended 5 a 0.5 MG tank at the water treatment plant No. 2 6 location. The construction was proposed for 1993-7 94 but was later delayed because the rate of growth 8 in Sugarmill Woods (and thus the need for the 9 project) had slowed. The regulatory mandate for 10 this project is the Citrus County fire flow 11 ordinance, which is based on the numbers of 12 13 residences in the service area. Because the three wells placed in service in 1991 pump directly into 14 15 the water distribution system, fire flow and peak 16 demand flows were able to be met by the well pumps. 17 The ability to meet these demands with existing 18 facilities is the reason that SSU did not install 19 those additional wells in 1993, 1995, and 1997 as 20 referred to by Mr. Hansen at page 16, line 6 of his 21 pre-filed testimony. As DEP witness Ms. Sandra 22 Sequeira confirms at page 11, line 21 of her pre-23 filed testimony, the Sugarmill Woods treatment 24 facilities and distribution system are sufficient 25 to serve its present customers. The assumption is

that Ms. Sequeira's conclusion is based on meeting maximum day and peak hour demands (FDEP criteria only, without considering fireflows per se.)

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Witness Hansen is nearly correct that strict 4 adherence with the Citrus County fire flow 5 ordinance (86-10) would dictate a tank size of 6 approximately 600,000 gallons. Actually 700,000 7 gallons would be required by that ordinance. The 8 closest standard size is 750,000 gallons. However, 9 the Citrus County requirement is based on a storage 10 volume equal to 50 percent of the sum of the 2500 11 gpm fire flow, coincident with a calculated peak 12 hour demand of 2075 gpm for 5 hours. 13 This requirement does not take into consideration the 14 15 pumping capacities of the existing wells (3000 gpm 16 firm capacity) which are also on line with the 17 distribution system. Also, a fire flow duration of 18 hours may be reasonable for an urban or 5 19 industrial area, but not for an almost exclusively 20 residential area such as Sugarmill Woods. The high 21 service pumping facilities are designed for the 22 2500 gpm fire flow demand (using the well pump 23 capacities to provide coincident draft), but 24 storage was designed to provide a more reasonable 25 duration of two hours, minimum. The size of this

tank, however, was dictated more by the hydraulic analysis.

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The reason for the tank project identified in 3 the MFRs is regulatory mandate. As indicated in 1 Exhibit (WCG-1), SSU is required to construct 5 the tank to meet the Citrus County fire flow 6 regulations, and FDEP Rules 62-555.320(4) and (7). 7 FDEP Rule 62-555.320(4) requires that all public 8 water systems provide for a minimum chlorine 9 contact time and maintain a chlorine residual 10 11 throughout the system, while FDEP Rule 62requires that high service pumping 12 555.320(7) facilities be provided to maintain a minimum 13 14 pressure of 20 psi at maximum hourly demand. 15 Growth within the service area, without 16 compensating increases in plant capacity, can cause 17 capacity shortcomings, and the existence of those 18 shortcomings would result in the potential for 19 those water systems being out of compliance with 20 the regulations, thus the justification as 21 "regulatory mandate" is correct. If one considers 22 that inadequate fire flow capacity may result, a 23 justification of "safety" would also be valid.

24In regard to the Sugarmill Woods wastewater25treatment plant, the capacity of the treatment

plant is 0.5 MGD. Although the oxidation ditch 1 portion of the treatment facilities could be rated 2 at 0.7 MGD, the limiting process is the final 3 clarifier. Its permitted capacity is 0.5 MGD, 4 although there has been some discussion that the 5 permitted capacity should be only 0.4 MGD. It was 6 originally proposed to add a second clarifier, 7 which would allow for a capacity change to the 0.7 8 However, because the influent 9 MGD as permitted. flows were only approximately 0.25 MGD at the time 10 final design and permitting were completed, the 11 second clarifier and resulting higher capacity were 12 not required, and not constructed. Similarly, the 13 expansion of the spray irrigation site was also not 14 The following components 15 required at this time. were constructed, for the following reasons: 16

17 Sludge digester modifications and lime 1. 18 stabilization _ EPA 40 Part 503 CFR 19 regulations to meet Class "B" requirements for 20 pathogen reduction and vector attraction 21 reduction.

22 2. Pretreatment headworks modifications 23 Wastewater transmission system surges have 24 resulted in raw sewage spills at this 25 structure. FDEP Rule 62-600.740(2) prohibits

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such spills.

- 3. Chlorine Contact Chamber FDEP Rule 62.600.440(4)(b) requires a minimum chlorine detention time of 15 minutes at peak hour flow. The former practice of injection at the effluent manhole, with detention in the effluent pipeline did not assure continuous compliance with this rule.
- 4. Auxiliary power Although not specifically required by rule for this facility, letters from FDEP strongly suggested inclusion of standby power to insure continuous treatment to the required levels.

14Witness Hansen questions SSU's attempts to be pro-15active in terms of construction of facilities to be16prepared for growth, and yet complains about SSU17continuously being as close to 100% used and useful18as possible.

19 Sugarmill Woods Witness Bertram has suggested 20 that the reason for iron problems at many of SSU's 21 water plants in Citrus County is that either the 22 wells are too shallow, or not adequately sealed 23 from the shallow, iron-bearing aquifer. While both 24 of these conditions could cause iron (or other 25 contamination) of wells, this is not necessarily

Older wells were drilled to shallower the case. 1 depths, but even the more recently drilled, deeper 2 wells in these areas have contained iron near, or 3 above the MCL. In SSU's statewide experience, and 4 through discussions with local well drillers and 5 hydrologists, we have noted that a deeper well may 6 vield somewhat lower iron levels, but may contain 7 higher sulfides, or chlorides. Local well drillers 8 The subsurface 9 have shared this experience. 10 geology varies considerably in the state, as does the depth to the Floridan Aquifer. These facts and 11 the direct and indirect connections to surface 12 waters dictate water quality. There are simply 13 areas in the state that have poor groundwater 14 As a former employee of Hillsborough 15 quality. County, I would expect that Witness Bertram would 16 17 be aware of that fact, since Hillsborough County is 18 importing a great deal of their water from Pasco 19 County due to the poor quality of local water 20 sources.

21Q.HAS SSU PRESENTED COMMISSION STAFF, PUBLIC COUNSEL22AND THE OTHER PARTIES WITH PLANT IN SERVICE23INFORMATION AS OF DECEMBER 31, 1995?

24A. Yes. Exhibit _____ (WCG-2) provides a schedule25identifying the actual plant placed in service by

in 1995 in the service areas under mv 1 SSU responsibility. Only five (5) of the twenty-one 2 1995 projects show no in-service amounts -- of 3 these, 2 were expensed, 2 were carried over to 1996 4 and 1 was cancelled. The total cost of these five 5 projects was only \$136,423 or only 4.4% of the 6 total cost of \$3,083,518 projected in the MFRs. 7 The remainder of the projected investments were in 8 fact made in projects placed into service. 9

10 Q. COULD YOU EXPLAIN WHY TWO PROJECTS WERE EXPENSED?

A. Yes, the two Lead and Copper projects totaling
\$3,946 were completed but expensed under SSU's
expense/capitalization procedures. These two
projects are part of the five 1995 projects showing
no in-service amount referred to earlier.

Q. CAN YOU EXPLAIN WHY ONE OF THE PROJECTS UNDER YOUR
 RESPONSIBILITY WAS CANCELLED?

Yes, one project under my responsibility in the 18 Α. 19 MFRs for \$2857 was cancelled because of an ability 20 to reuse existing dual chlorine scales from another 21 plant that was converted to hypochlorination. For project 95CW430 in SugarMill Woods, SSU reused the 22 23 scales to save the Company and its customers money. 24 fact, equipment, including entire package In 25 plants, have been reused by SSU to save money.

1Q.WERE THERE ANY PROJECTS COMPLETED IN 1995 UNDER2YOUR RESPONSIBILITY WHICH WERE NOT PROJECTED TO BE3COMPLETED IN THE MFR PROJECTIONS FOR 1995?

We completed and placed into service two 4 Α. Yes. projects which were not included in the MFRs but 5 were placed into service in 1995. These projects 6 are referred to as the Pine Ridge Booster Station 7 (94CW036) and the State Road 19 Utility Relocations 8 9 for Salt Springs (95CW733). The in service amounts for these two projects were \$166,803 and \$26,829, 10 respectively. It is not unusual and in fact is to 11 be expected that the necessity to complete projects 12 13 not budgeted will arise during the course of the 14 year as a result of inspections by environmental 15 regulators, the imposition of new and unexpected permit conditions at permit renewal time, equipment 16 17 failures or other similar circumstances. Due to 18 the limitations on capital available to SSU, when projects like these arise, we typically review 19 20 other projects under our responsibility to 21 determine whether they can be cancelled or delayed 22 so that we can remain within the capital budget. 23 Of course, if projects are mandated by public 24 health or environmental concerns there might be no 25 room for compromise on such projects. SSU requests

1 that the actual cost of these projects be 2 considered by the Commission as an offset to any 3 reduction that the Commission would make to rate 4 base so long as total revenue requirements are not 5 increased.

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 Q. COULD YOU PLEASE IDENTIFY THE CURRENT STATUS OF THE

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 PROJECT UNDER YOUR RESPONSIBILITY WHICH WAS

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 INCLUDED IN THE MFRS FOR 1995 BUT NOT PLACED INTO

 9
 SERVICE.

10 Α. The one project identified in Exhibit (WCG-2) 11 which was under my responsibility and which was not placed into service in 1995 was the wastewater 12 13 treatment plant improvements to the Point O'Woods 14 facilities (94W062). These facilities were 15 substantially complete on September 15, 1995, but 16 were not placed in service until January 23, 1996. 17 Booking of the project as "in service" was delayed 18 solely due to delays in obtaining DEP clearance for 19 use.

20 Q. DOES THAT CONCLUDE YOUR REBUTTAL TESTIMONY?
21 A. Yes, it does.

SOUTHERN STATES UTILITIES, INC. PLANT ADDITIONS & REGULATORY REQUIREMENT(S) West Region

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Year	Project	Description	riant in	CCROIMOLA MINING
			Service	
			Amount	
		Apache Shores - Water		
1995	95CO211	LG WATER METER RETROFIT	232.00	62-555.320(6)*(8), SWFWMD 40D-2, 25-30.262,263,264
1995	95CC331	CHLORINATR/BSTR PMP/EJETR	18.00	62-555.320(5)a
1995	95CO101	METER TEST/INSTALL EQUIP	5.00	62-555.320(6)*(8), SWFWMD 40D-2, 25-30.262,263,264
1996	96R0057	LARGE METER RETROFIT	323.00	62-555.320(6)*(8), SWFWMD 40D-2, 25-30.262,263,264
		Subtotal	578.00	
		Citrus Park - Water		
1994	93CW598	WATER METER ADDITION	1,530.00	17-555.320(8)
1995	95CO211	LG WATER METER RETROFIT	535.00	62-555.320(6)*(8), SJRWMD 40C-2, 25-30.262,263,264
1 995	95CC331	CHLORINATR/BSTR PMP/EJETR	41.00	62-555.320(5)a
1995	95CO101	METER TEST/INSTALL EQUIP	13.00	62-555.320(6)*(8), SJRWMD 40C-2, 25-30.262,263,264
1996	96R0057	LARGE METER RETROFIT	747.00	62-555.320(6)*(8), SJRWMD 40C-2, 25-30.262,263,264
		Subtotal	2,866.00	

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Year	Project	Description	Plant In	Regulatory Mandate
			Service	
			Amount	

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		Citrus Springs - Water	· · · · · ·	
17-55.320(6).350	28,445.15	PORTABLE GENERATORS	91CW388	1993
17-555.320	925.08	CHLORINE BOOSTER PUMP	93CW507	1993
FDEP Inspection letter 4/24/92, 17-555, 320	745.16	CHLORINE ALARMS	92CW477	1 994
62-555.320(6)*(8), SWFWMD 40D-2, 25-30,262,263,20	2,735.00	LG WATER METER RETROFT	95CO211	1995
62-555,320(5	209.00	CHLORINATR/BSTR PMP/EJETR	95CC331	1995
62-555.320(6)*(8), SWFWMD 40D-2, 25-30,262,263,26	64.00	METER TEST/INSTALL EQUIP	95CO101	1 995
62-555.320(7), 350(715,903.00	0.5 GST/HIGH SERV PUMP	95CW222	1996
62-555.320(6)*(8), SWFWMD 40D-2, 25-30, 262, 263, 26	3,822.00	LARGE METER RETROFIT	96R0057	1996
	752,848,39	Subtotal		
		Citrus Springs - Wastewater	(
17.180.300	202.50	MONITORING WELL PUMP	91CW341	1993
17-600,410, 600,440, 640,60	127,634.42	WWTP UPGRADE	93CW665	1994
	127,836.92	Subtotal		
		ystal River Highlands - Water	Cŋ	
17-550.17-555.315.35	64,346.09	WTP IMPROVEMENT	93CW247	1995
62-555.320(6)*(8), SWFWMD 40D-2, 25-30, 262, 263, 26	113.00	LG WATER METER RETROFT	95CO211	1995
62-555 320(5)	9.00	CHLORINATR/BSTR PMP/EJETR	95CC331	1 995
62-555.320(6)*(8), SWFWMD 40D-2, 25-30 262 263 26	3.00	METER TEST/INSTALL EQUIP	95CO101	1 995
62-555.320(6)*(8), SWFWMD 40D-2, 25-30 262 263 26	157.00	LARGE METER RETROFIT	96R0057	1996
	64,628,09	Subtotal		
		Gibsonia Estates - Water		
62-555 320//	37.210.30	AUXILIARY POWER	92CW010	1995
62-555.320(6)*(8), SWFWMD 40D-2, 25-30, 262, 263, 26	248.00	LG WATER METER RETROFIT	95CO211	1995
62-555 320(5)	19.00	CHLORINATR/BSTR PMP/EJETR	95CC331	1995
62-555,320(6)*(8), SWFWMD 40D-2, 25+30, 262, 263, 26	6.00	METER TEST/INSTALL EOUIP	95CO101	1995
62-555,320(6)*(8), SWFWMD 40D-2, 25-30,262,263,26	347.00	LARGE METER RETROFIT	96R0057	1996
	37.830.30	Subtotal		· · · · · · · · ·

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Year	Project	Description	Plant In	Regulatory Mandate
			Service	
			Amount	

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		Goldon Terrace - Water		
1994	92CW565	INTERCONNECT WITH CITY OF INVERNESS	84,447.35	17-550.320, 350, C.O. 92-2012
1995	95CO211	LG WATER METER RETROFIT	162.00	62-555.320(6)*(8), SWFWMD 40D-2, 25-30.262,263,264
1995	95CC331	CHLORINATR/BSTR PMP/EJETR	12.00	62-555.320(5)a
1995	95CO101	METER TEST/INSTALL EQUIP	4.00	62-555.320(6)*(8), SWFWMD 40D-2, 25-30.262,263,264
1996	96R0057	LARGE METER RETROFIT	226.00	62-555.320(6)*(8), SWFWMD 40D-2, 25-30.262,263,264
		Subtotal	84,851.35	
	G	Hospel Island Estates - Water		
1995	95CO211	LG WATER METER RETROFIT	12.00	62-555.320(6)*(8), SWFWMD 40D-2, 25-30.262,263,264
1995	95CC331	CHLORINATR/BSTR PMP/EJETR	1.00	62-555.320(5)a
1996	96RO057	LARGE METER RETROFIT	17.00	62-555.320(6)*(8), SWFWMD 40D-2, 25-30.262,263,264
· ·		Subtotal	30.00	
		Hershel Heights - Water		
1995	95CO211	LG WATER METER RETROFIT	486.00	62-555.320(6)*(8), SWFWMD 40D-2, 25-30.262,263,264
1995	95CC331	CHLORINATR/BSTR PMP/EJETR	37.00	62-555.320(5)a
1995	95CO101	METER TEST/INSTALL EQUIP	11.00	62-555.320(6)*(8), SWFWMD 40D-2, 25-30.262,263,264
1996	96RO057	LARGE METER RETROFIT	679.00	62-555.320(6)*(8), SWFWMD 40D-2, 25-30.262,263,264
		Subtotal	1,213.00	
		Lake Gibson - Water		
1994	92CW326	WTP FENCE	1,498.39	17-555.310,315
1995	95CO211	LG WATER METER RETROFIT	1,178.00	62-555.320(6)*(8), SWFWMD 40D-2, 25-30.262,263,264
1995	95CC331	CHLORINATR/BSTR PMP/EJETR	90.00	62-555.320(5)a
1995	95CO101	METER TEST/INSTALL EQUIP	28.00	62-555.320(6)*(8), SWFWMD 40D-2, 25-30.262,263,264
1996	96R0057	LARGE METER RETROFIT	1,646.00	62-555.320(6)*(8), SWFWMD 40D-2, 25-30.262,263,264
		Subtotal	4,440.39	
		Lake Gibson - Wastewater		
1993	91CW002	WWTP EXPANSION/IMPROVEMENTS/PH	497,666.62	17-600,405, 410
		METERS		
1994	91CW367	FLOW METER	3,478.12	17-601.300
		Subtotal	501,144.74	

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Year	Project	Description	Plant In	Regulatory Mandate
			Service	
			Amount	

		Lakeside - Water		
1995	95CO211	LG WATER METER RETROFIT	133.00	62-555.320(6)*(8), SWFWMD 40D-2, 25-30.262,263,264
1995	95CC331	CHLORINATR/BSTR PMP/EJETR	10.00	62-555.320(5)a
1995	95CO101	METER TEST/INSTALL EQUIP	3.00	62-555.320(6)*(8), SWFWMD 40D-2, 25-30.262,263,264
1996	96RO057	LARGE METER RETROFIT	185.00	62-555.320(6)*(8), SWFWMD 40D-2, 25-30.262,263,264
		Subtotal	331.00	
		Marion Oaks - Water		
1 994	92CW109	LAB EQUIPMENT	3,215.30	17-550.500,550
1995	95CO211	LG WATER METER RETROFIT	3,831.00	62-555.320(6)*(8), SWFWMD 40D-2, 25-30.262,263,264
1995	95CC331	CHLORINATR/BSTR PMP/EJETR	293.00	62-555.320(5)a
1995	95CO101	METER TEST/INSTALL EQUIP	90.00	62-555.320(6)*(8), SWFWMD 40D-2, 25-30.262,263,264
1996	96RO057	LARGE METER RETROFIT	5,353.00	62-555.320(6)*(8), SWFWMD 40D-2, 25-30.262,263,264
		Subtotal	12,782.30	
		Marion Oaks - Wastewater		
1995	93CW256	WWTP EXPANSION	559,609.25	62-600.405, 740, 610.510, C.O. 93-4503
1995	95CW388	RETURN SLUDGE PUMP	3,571.50	62-600.410(1),*(6)
1996	96R0049	REPLACE ELECTRIC BOX (5)	17,850.00	62-604.130, 400, 500
		Subtotal	581.030.75	

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Year	Project	Description	Plant In	Regulatory Mandate
			Service	
			Amount	

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		Oak Forest - Water		
1995	95CO211	LG WATER METER RETROFIT	218.00	62-555.320(6)*(8), SWFWMD 40D-2, 25-30.262,263,264
1995	95CC331	CHLORINATR/BSTR PMP/EJETR	17.00	62-555.320(5)a
1995	95CO101	METER TEST/INSTALL EQUIP	5,00	62-555.320(6)*(8), SWFWMD 40D-2, 25-30.262,263,264
1996	96R0057	LARGE METER RETROFT	304.00	62-555.320(6)*(8), SWFWMD 40D-2, 25-30.262,263,264
		Subtotal	544.00	
	On	ange Hill /Sugar Creek - Water		
1995	95CO211	LG WATER METER RETROFIT	354.00	62-555.320(6)*(8), SWFWMD 40D-2, 25-30.262,263,264
1995	95CC331	CHLORINATR/BSTR PMP/EJETR	27.00	62-555.320(5)a
1995	95CO101	METER TEST/INSTALL EQUIP	8.00	62-555.320(6)*(8), SWFWMD 40D-2, 25-30.262,263,264
1996	96R0057	LARGE METER RETROFIT	494.00	62-555.320(6)*(8), SWFWMD 40D-2, 25-30.262,263,264
		Subtotal	883.00	
		Paim Terrace - Water		
1995	95CW715	LEAD AND COPPER CONTROL	1,973.25	62-5 51.500
1995	95CO211	LG WATER METER RETROFIT	1,807.00	62-555.320(6)*(8), SWFWMD 40D-2, 25-30.262,263,264
1 995	95CC331	CHLORINATR/BSTR PMP/EJETR	138.00	62-555.320(5)a
1995	95CO101	METER TEST/INSTALL EQUIP	42.00	62-555.320(6)*(8), SWFWMD 40D-2, 25-30.262,263,264
1996	96R0057	LARGE METER RETROFT	2,525.00	62-555.320(6)*(8), SWFWMD 40D-2, 25-30.262,263,264
		Subtotal	6,485.25	
		Palm Terrace - Wastewater		
1 995	94CW516	MONITORING WELLS	2,170.84	62-522.600, 62-610.424
		Subtotal	2,170.84	
		Pine Ridge - Water		
1 993	89CW087	WELL #4	262,071.16	17-555.315, 320, 350
1995	95CO211	LG WATER METER RETROFIT	1,013.00	62-555.320(6)*(8), SWFWMD 40D-2, 25-30.262,263,264
1995	95CC331	CHLORINATR/BSTR PMP/EJETR	77.00	<u>62-555.320(5)a</u>
1995	95CO101	METER TEST/INSTALL EQUIP	24.00	62-555.320(6)*(8), SWFWMD 40D-2, 25-30.262,263,264
1996	96RO057	LARGE METER RETROFIT	1,416.00	62-555.320(6)*(8), SWFWMD 40D-2, 25-30.262,263,264
		Subtotal	264.601.16	

EXHIBIT (426-1)

Year	Project	Description	Plant In	Regulatory Mandate
	1.		Service	
ł .			Amount	

		Point O' Woods - Water		
1994	91CW365	WTP IRON FILTERS	456,005.11	17-550.320 & C.O. 92-1613
1995	95CW718	LEAD AND COPPER CONTROL	1,973.25	62-551.500
1995	95CO211	LG WATER METER RETROFIT	524.00	62-555.320(6)*(8), SWFWMD 40D-2, 25-30.262,263,264
1995	95CC331	CHLORINATR/BSTR PMP/EJETR	40.00	62-555.320(5)a
1995	95CO101	METER TEST/INSTALL EQUIP	12.00	62-555.320(6)*(8), SWFWMD 40D-2, 25-30.262,263,264
1996	96R0057	LARGE METER RETROFIT	732.00	62-555.320(6)*(8), SWFWMD 40D-2, 25-30.262,263,264
		Subtotal	459,286.36	
	P	oint O' Woods - Wastewater		
1994	93CW525	LIFT STATION CONTROL PANEL	6,957.39	17-604.130, 400, 500
1995	94CW062	WWTP IMPROVEMENTS	103,310.30	62-610.482, 464
х		Subtotal	110,267.69	
	Ro	semont/Rolling Green - Water		
1 993	89CW018	CONSTRUCT PLANT	23,091.10	Citrus Co. Ord. 88-10,17-555.315, 320, 350(1)
1994	94CW367	CHLORINE BOOSTER PUMP	698.87	17-555.320(4)(5)
1995	95CO211	LG WATER METER RETROFIT	183.00	62-555.320(6)*(8), SWFWMD 40D-2, 25-30.262,263,264
1995	95CC331	CHLORINATR/BSTR PMP/EJETR	14.00	62-555.320(5)a
1995	95CO101	METER TEST/INSTALL EQUIP	4.00	62-555.320(6)*(8), SWFWMD 40D-2, 25-30.262,263,264
1996	96R0057	LARGE METER RETROFIT	256.00	62-555.320(6)*(8), SWFWMD 40D-2, 25-30.262,263,264
		Subtotal	24,246.97	
		Samira Villas - Water		
1995	95CO211	LG WATER METER RETROFT	3.00	62-555.320(6)*(8), SWFWMD 40D-2, 25-30.262,263,264
1996	96R0057	LARGE METER RETROFIT	4.00	62-555.320(6)*(8), SWFWMD 40D-2, 25-30.262,263,264
		Subtotal	7.00	
		Seaboard - Water		
1994	94CW219	WTP TANK	52,616.52	17-555.350(1)
1995	95CO211	LG WATER METER RETROFIT	3,921.00	62-555.320(6)*(8), SWFWMD 40D-2, 25-30.262,263,264
1995	95CC331	CHLORINATR/BSTR PMP/EJETR	300.00	62- 555.320(5)a
1995	95CO101	METER TEST/INSTALL EQUIP	92.00	62-555.320(6)*(8), SWFWMD 40D-2, 25-30.262,263,264
1996	96R0057	LARGE METER RETROFIT	5,479.00	62-555.320(6)*(8), SWFWMD 40D-2, 25-30.262,263,264
		Subtotal	62,408,52	

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Year	Project	Description	Plant In	Regulatory Mandate
		-	Service	
			Amount	

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17-522, 17-610.424 17-604.130, 400, 500 FS 337.403 gh Co. C.O. EPC\$552DW, 17-302, 410, 600.410(7)
17-522, 17-610.424 17-604.130, 400, 500 Fs 337.403 gh Co. C.O. EPC\$5552DW, 17-302, 410, 600.410(7)
17-604.130, 400, 500 FS 337.403 gh Co. C.O. EPC\$552DW, 17-302, 410, 600.410(7)
FS 337.403 gh Co. C.O. EPC5552DW, 17-302, 410, 600.410(7)
gh Co. C.O. EPC5552DW, 17-302, 410, 600.410(7)
10.320, NPDES Permit FL0041220
FS 337.403
17-600
17-604.130,400, 500
17-604.130,400, 500
17-600.410(6)
17-610.415, DO42-174196
17-600.410(6
17-610.415, DO42-174196
62-610.418
40D-2, 25-30.262,263,264
62-555.320(5)8
40D-2, 25-30.262,263,264
40D-2, 25-30.262, 263, 264



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Year	Project	Description	Plant In	Regulatory Mandate
			Service	
			Amount	

		Spring Hill - Water		
1993	93CW506	FLOW METERS FOR WELL # 26, # 27, # 28	17,863.98	SWFWMD 400.2
1993	93ZZ777	WATER SERVICES	4,734.64	SWFWMD 40D.2
1994	94CW064	US 19 FDOT UTILITY RELOCATIONS	77,930.26	17-500 & 600,*FS 337,403
1994	92CW389	REBUILD 3 ONAN GENERATORS	6,132.34	17-555.320(6
1994	91CW490	PUMP & WELL REBUILD #6	6,062.59	FDEP Inspection letter 10/8/93, 17-555.320, 350(1
19 94	93CW594	CHLORINE ALARMS	4,416.19	17-555.320(5)
1994	90CW123	CHLORINE ALARM SYSTEM	3,582.73	17-555.320(5)
1994	92CW230	CHLORINATOR TANK UNITS	2,358.85	17-555.320/5
1994	92CW313	OVERHAUL MOTOR WELL #20	1,710.76	FDEP Inspection letter 10/8/93, 17-555.320, 350(1)
1994	92CW324	REBUILD MOTOR - WELL # 19	1,426.88	FDEP Inspection letter 10/8/93, 17-555,320, 350(1)
1 994	94CW374	FLOW TOTALIZER METER	1,383.70	SWFWMD 40D-2
1994	92CW508	REBUILD WELL MOTOR #11	1,196.01	17-555.320, 350(1)
1994	93CW506	FLOW METERS FOR WELLS #26, 27 & 28	957.48	FDEP Inspection letter 10/8/93, 17-555.320(8), SWFWMD 40D-2
1994	94CW353	BACKFLOW TEST KIT	742.59	17-555.360
1995	94CW464	DRIVE WIDENING	42,651.50	FS 337.403
1995	95CO211	LG WATER METER RETROFIT	37,094.00	62-555.320(6)*(8), SWFWMD 40D-2, 25-30.262,263,264
1995	95CC331	CHLORINATR/BSTR PMP/EJETR	2,835.00	62-555.320(5)a
1995	95CO101	METER TEST/INSTALL EQUIP	871.00	62-555.320(6)*(8), SWFWMD 40D-2, 25-30.262,263,264
1996	95CWttt	1.0 MG GST/HIGH SERV PUMP	1,011,153.00	62-555.320, 350(1)
1996	95CWvvv	WELLS #30 & 31	587,356.00	62-555.320, 350(1)
1996	96R0057	LARGE METER RETROFIT	51,834.00	62-555.320(6)*(8), SWFWMD 40D-2, 25-30.262,263,264
		Subtotal	1,864,293.50	



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Year	Project	Description	Plant In	Regulatory Mandate
			Amount	

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		Spring Hill - Wastewater		
1993	91CW084	WALLS AND PIPING PROJECT AT WWTP	252,071.98	17-600.410
1993	92CW259	LIFT STATION PUMP	7,845.26	17-604.130, 400, 500
1993	92CW223	LIFT STATION 25-F REHABILITATION	4,853.87	17-604.130, 400, 500
1993	93CW479	FLOW METER	3,843.93	17-601.300
1993	92CW355	REBUILD PUMP & MOTOR L/S 25-1	719.29	17-604.130, 400, 500
1993	93CW430	5 HP SUBMERSIBLE PUMP	570.00	17-600.440
1994	92CW222	WWTP EFFLUENT DISPOSAL	877,422.42	17-810.423
ł		IMPROVEMENT		
1994	94CW064	US 19 FDOT UTILITY RELOCATIONS	107,617.98	17-500 & 600,*FS 337.403
1994	92CW468	PH CL2 ANALYZERS/COMPOSITE SAMPLER	6,303.54	17-600.440, 445, 601.500
1994	92CW330	OVERHAUL AERATOR AT STP	6,197.02	17-600.410
1994	89CW099	1 MG STORAGE TANK - UNIT 13	3,672.27	17-600, 610
1994	92CW509	REBUILD 2 EMU SUBMERSIBLE PUMPS	2,161.39	17-604.130, 400, 500
1994	94CW343	ODOR CONTROL - BLACK HAWK TOGGER	2,038.64	17-600.410(8)
1994	92CW401	REBUILD 30 HP AERATOR MOTOR	2,015.01	17-600.410
1994	91CW491	REBUILD PUMP & MOTOR FOR L/S #25	876.37	17-604.130, 400, 500
1995	94CW479	LIME STABILIZATION	850,073.03	40CFR503
1996	94CW476	CLASS I MODIFICATIONS	2,759,150.11	62-600.405, 610.462
1996	95CW720	REUSE TO TIMBER PINES	1,369,427.26	62-610.423, 462
		Subtotal	6,256,859.37	



Year	Project	Description	Plant In	Regulatory Mandate
			Service	
		· · · · · · · · · · · · · · · · · · ·	Amount	

		Sugar Mill Woods - Water		
1994	90CW368	PLANT EXPANSION	27.062.28	17-555.320, 350(1)
1994	94CW325	FLOW RECORDERS & RATE INDICATORS	5.297.80	17-555.320(8)
		WTP 1 &3		
1994	90CW215	GAS CHLORINATORS (3)	3,397.60	17-555.320(5)
1994	92CW457	CL2 ALARMS	2,033.74	17-555.320(5)
1995	95CO211	LG WATER METER RETROFIT	3,422.00	62-555.320(6)*(8), SWFWMD 40D-2, 25-30.262,263,264
1995	95CC331	CHLORINATR/BSTR PMP/EJETR	262.00	62-555.320(5)a
1995	95CO101	METER TEST/INSTALL EQUIP	80.00	62-555.320(6)*(8), SWFWMD 40D-2, 25-30.262,263,264
1996	95CWeee	0.5 MG GST/HIGH SERV PUMP	715,903.00	62-555.320(7), 350(1)
1996	96R0057	LARGE METER RETROFIT	4,782.00	62-555.320(6)*(8), SWFWMD 40D-2, 25-30.262,263,264
		Subtotal	762,240.42	· · · · · · · · · · · · · · · · · · ·
	Su	gar Mill Woods - Wastewater		
1993	92CW098	MONITORING WELL PUMPS	3,626.54	17-522, 610.424
1995	93CW255	WWTP IMPROVEMENTS	875,037.53	17-600.405
		Subtotal	878,664.07	
		Sunny Hills - Water		
1993	93CW410	EMERGENCY GENERATOR & GST FOR	99,378.26	17-555.320(6) & 350(1)
		WELL #4	· · ·	
1993	92CW304	HYDRO TANK WELL #1	15,462.12	17-555.350(1)
1993	92CW540	CHLORINE ALARMS	1,644.54	17-555.320(5)
1994	93CW410	EMERGENCY GENERATOR & GST FOR	24,118.20	17-555.320(8) & 350(1)
		WELL #4		
<u>1994</u>	91CW242	CHLORINATION SYSTEM	6,490.12	17-555.320(5)
1995	95CO211	LG WATER METER RETROFIT	649.00	62-555.320(6)*(8), NWFWMD 40A-2, 25-30.262,263,264
1995	95CC331	CHLORINATR/BSTR PMP/EJETR	50.00	<u>62-555.320(5)a</u>
1995	95CO101	METER TEST/INSTALL EQUIP	15.00	62-555.320(6)*(8), NWFWMD 40A-2, 25-30.262,263,264
1996	96R0057	LARGE METER RETROFIT	907.00	62-555.320(6)*(8), NWFWMD 40A-2, 25-30.262,263,264
		Subtotal	148,714.24	

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Year	Project	Description	Plant In	Regulatory Mandate
	_		Service	
			Amount	

[· ····· · · · · ·	Sunny Hills - Wastewater		
1994	89CW063	INSTALL IRRIGATION EFFLUENT PUMP	1,200.60	17-610.320
		Subtotal	1,200.60	
		Valrico Hills - Water		
1993	91CW398	STORAGE TANK & GENERATOR	52,432.35	17-555.320(6) & 350(1)
1994	92CW645	MAIN WELL PUMP REBUILD	681.42	17-555.320, 350
1995	95CO211	LG WATER METER RETROFIT	539.00	62-555.320(6)*(8), SWFWMD 40D-2, 25-30.262,263,264
1995	95CC331	CHLORINATR/BSTR PMP/EJETR	41.00	62-555.320(5)a
1995	95CO101	METER TEST/INSTALL EQUIP	13.00	62-555.320(6)*(8), SWFWMD 40D-2, 25-30.262,263,264
1996	96R0057	LARGE METER RETROFT	754.00	62-555.320(6)*(8), SWFWMD 40D-2, 25-30.262,263,264
		Subtotal	54,460.77	
		Valrico Hills - Wastewater		
1994	90CW433	WWTP GROUNDWATER	21,610.26	17-522.600, 610.424
1994	92CW293	CHLORINE BUILDING	1,531.93	17-600.440
		Subtotal	23,142.19	
		Zephyr Shores - Water		
1994	91CW359	CHLORINE ALARMS	1,076.62	17-555.320(5
1994	91CW346	CHLORINATOR IMPROVEMENTS	1,040.50	17-555.320(5)
1995	95CO211	LG WATER METER RETROFIT	738.00	62-555.320(6)*(8), SWFWMD 40D-2, 25-30.262,263,264
1995	95CC331	CHLORINATR/BSTR PMP/EJETR	56.00	62-555.320(5)a
1995	95CO101	METER TEST/INSTALL EQUIP	17.00	62-555.320(6)*(8), SWFWMD 40D-2, 25-30.262,263,264
1996	96R0057	LARGE METER RETROFIT	1,031.00	62-555.320(6)*(8), SWFWMD 40D-2, 25-30.262,263,264
		Subtotal	3,959.12	
		TOTAL	\$14,884,814.63	

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Year	Project	Description	Plant In	Regulatory Mandate
	•		Service	
•			Amount	

C.O. - Consent Order

Char. Co. Agmt. - Charlotte County Agreement

DO - Domestic Operating

DT - Domestic Temporary

FS - Florida Statutes

NNC - Notice of Non-Compliance

NWWMD - Northwest Florida Water Management District

OGC - Office of General Counsel

SFWMD - South Florida Water Management District

SJRWMD - St. Johns River Water Management District

SWFWMD - Southwest Florida Water Management District

TOP - Temporary Domestic Operating

WL - Warning Letter

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Southern States Utilities, Inc. - West Region

1995 Filed and Actual FPSC Plant in Service Additions (w/o General Plant) As of December 31, 1995

		In-Servi	ce Date .	In-Service Amount	
Project #	Project Description	Filed	Actual	Filed	Actual
CRYSTAL RI	VBR				
93CW247	WTP IMPROVEMENT	09/13/95	12/05/95	64,346	46,584 (b
•	Total Crystal River - Weber			64,346	4655514
MARION OAL	·				
95CW389	HYDRANTS	10/31/95	11/28/95	19,643	4,399
	Total Water			19,643	4,399
93CW256	WWTP EXPANSION	07/19/95	07/24/95	559,609	524,942
95CW388	RETURN SLUDGE PUMP	03/31/95	02/08/95	3,572	2,115
	Total Wastewater			563,181	527,057
	Total Marian Daka		_	582.824	531.456
OAK FOREST					
93CW662	WTP UPGRADE	08/03/95	07/27/95	125,591	143,379
	Total Oak Farest - Water			122515591	453-3779
PALM TRRRA	CR				
95CW715	LEAD AND COPPER CONTROL	Expensed		1.973	0 (1
	Total Water		-	1,973	0
95CW401	LIFT STATION CNTRL PANEL	05/01/95	12/01/95	3,929	3,660
94CW516	MONITORING WELLS	02/28/95	12/29/94	2,171	2,120
	Total Wastewater	***		6,099	5,780
	Total Palm Terrace		-	8.073	5.780
PINE RIDGE					
95CW404	FIRE HYDRANTS	12/31/95	11/28/95	21,429	19,617
	Total Pine Ridge - Water		=	21.429	19.617
POINT O'WO	ODS				
95CW718	LEAD AND COPPER CONTROL	Expeased		1,973	0 (1
	Total Water	-	-	1,973	ō
94CW062	WWTP IMPROVEMENTS	07/19/95		103,310	0
	Total Wastewater			103,310	0
	Total Point O'Woods		=	105.284	0
SOUTH FORI	7				
94CW502	HOLDING POND LINING	04/10/95	04/29/95	33,220	13,342
95CW415	CHAIN LINK FENCE	03/31/95	08/23/95	2,976	2,333
	Total South Forty - Wastewator		=	36.196	15,675
SUGAR MILL	WOODS			•	
95CW430	DUAL 150# CL2 SCALES(2)	Cancelled		2,857	0
	Total Water		-	2,857	0
93CW255	WWTP IMPROVEMENTS	09/14/95	12/05/95	875,038	846,717 (
	Total Wastewater		•	875,038	846,717
	Total Sugar Mill Woods		-	877.895	846.717
SUNNY HILL	5				
95CW432	UPGRADE LIFT STATION #4A	04/30/95	12/18/95	40,178	30,773
	Total Sunny Hills - Wastewater			40.178	30,773

(a) Completed and expensed rather than capitalized.

(b) Reflects completion of a phase, but not entire project.

(c) Not required because gov't authority did not perform it's project.

(d) Refers to Refundable Advance, with zero rate base impact.

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Southern States Utilities, Inc. - West Region

1995 Filed and Actual FPSC Plant in Service Additions (w/o General Plant) As of December 31, 1995

Project #	Project Description	In-Serv	In-Service Date		In-Service Amount	
		Filed	Actual	Filed	Actual	
WEST REGIO	N PLANT					
95CW726	LINE EXTENSIONS - WATER	12/15/95	12/29/95	894,540	433,479	
95CW220	NEW METERS/CHANGE OUT PRG	12/31/95	12/29/95	178,575	151,332	
95CW219	WATER SERVICES	12/31/95	12/29/95	154,765	53,261	
	Total Water			1,227,880	638,071	
95CW72 5	LINE EXTENSIONS - SEWER	12/15/95	12/29/95	26,310	0.	
	Total Wastewater		•	26,310	0	
	Total West Region			1723190	638/07/1	
ZEPHYR SHO	RBS					
93CW663	WWTP SITE IMPROVEMENTS	03/20/95		19,893	5,632 (
	Total Zephyr Shoras - Wastewatar			19,893	5.632	
	Total 1995 Plant In-Service Additions	- As Filed in MF	R's	3,135,897	2,283,684	
	Total Per MFR's	cauon Adjustmen	nus —	<u>(52,379)</u> 3 083 518		

(a) Completed and expensed rather than capitalized.

(b) Reflects completion of a phase, but not entire project.

(c) Not required because govt authority did not perform it's project.

(d) Refers to Refundable Advance, with zero rate base impact.