96-04227

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

In re: Application by Southern) Docket No. 950495-WS States Utilities Inc. for rate increase and increase in service) availability charges for Orange-) Osceola Utilities, Inc. in Osceola County, and in Bradford,) Brevard, Charlotte, Citrus, Clay, Collier, Duval, Hernando,) Highlands, Hillsborough, Lake, Lee, Marion, Martin, Nassau, Orange, Osceola, Pasco, Polk, Putnam, Seminole, St. Johns, St. Lucie, Volusia and Washington Counties.



SECOND DAY - LATE AFTERNOON SESSION

VOLUME 9

PAGES 864 through 925

PROCEEDINGS:

HEARING

BEFORE:

DATE:

TIME:

CHAIRMAN SUSAN F. CLARK COMMISSIONER J. TERRY DEASON COMMISSIONER JULIA L. JOHNSON COMMISSIONER DIANE K. KIESLING COMMISSIONER JOE GARCIA

Wednesday, May 1, 1996

Reconvened at 3:10 p.m.

Betty Easley Conference Center PLACE: Room 148 4075 Esplanade Way Tallahassee, Florida

REPORTED BY: LISA GIROD JONES, RPR, RMR

APPEARANCES:

(As heretofore noted.)

DOCUMENT NUMBER-DATE

04946 MAY-28

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1	PROCEEDINGS
2	(Transcript continues in sequence from
3	Volume 8.)
4	CHAIRMAN CLARK: We'll reconvene the hearing.
5	Mr. Riley.
6	MR. FEIL: Madam Chairman, if I may one
7	preliminary item before we start up with Mr. Hartman,
8	again. Mr. Edmunds, who is two witnesses after
9	Mr. Hartman, had informed me late last week that he had
10	an emergency meeting scheduled in Ocala tomorrow
11	morning. If we are unable to finish with Mr. Edmunds
12	this evening, we can have him come back on Friday, but
13	he is going to be unavailable all day Thursday. I'm
14	mentioning this so we could all keep that in mind in
15	terms of pacing the order of witnesses.
16	CHAIRMAN CLARK: Okay. Thank you. Go ahead,
17	Mr. Riley.
18	GERALD C. HARTMAN, P.E.
19	resumed the stand on behalf of Florida Cities Water
20	Company, and having previously been duly sworn,
21	testified as follows:
22	CONTINUED CROSS EXAMINATION
23	BY MR. RILEY:
24	Q Mr. Hartman, I've been assured in the break
25	that the as-built drawings of the tank, as it's

1	connected to the pump, which is drawing water out of the
2	tank, should tell you what the lowest level of the water
3	would be and still be able to be drawn out of the tank,
4	and that it would be dictated by the NS the NPSH of
5	this high service or the pump that's drawing the
6	water out or the net positive suction head of that
7	particular pump. That is not your understanding, that
8	the as-built drawings of this tank connected to the pump
9	will not reveal the lowest level that the water can
10	reach and still be pumped out of the tank?
11	A Sorry. Some do, some don't is the answer to
12	that. I mean, a very thorough professional engineer
13	with a good contractor, once things are constructed,
14	many times makes that denotation, but I've seen many
15	storage tanks without the denotation made.
16	Q But it's true that ground storage does not
17	always have a ten percent dead storage; it depends on
18	the particular situation?
19	A Ten percent is a good average. It's not
20	again, that's an averaging versus taking a higher and
21	lower figure based on each pump analysis and the
22	elevation of the pump and the speed of the pumps.
23	Q We did accomplish a few things in the break,
24	as we oftentimes do, to not plow over areas that have
25	been perhaps sufficiently plowed over, so if I can, I

1 would direct your attention all the way to Page 47 of 2 your rebuttal testimony, on Lines 5 through 9. And on 3 those lines you state that the ERC numbers in Schedule F 4 need not match the Schedule E for rate design; is that 5 correct?

6 COMMISSIONER GARCIA: I'm sorry, where are you 7 at now?

I'm sorry, this is Page 47, Lines MR. RILEY: 8 5 through 9. And I'll just read it here quickly. The 9 ERCs in the F Schedules represent ERCs based on plant 10 flows and/or meter equivalency factors for used and 11 useful purposes. The figures in the E Schedules are 12 prepared for rate design purposes and need not match 13 those of the F Schedules. 14

15 WITNESS HARTMAN: I understand your point in 16 the word "need," and I would change that to "may not," 17 because they are two different sets of numbers.

18 Q (By Mr. Riley) Do they need to match or do
19 they not need to match, is my question.

A As long as the appropriate ERCs are used for rate making purposes, then the rate design would be correct and the appropriate number of ERCs being used for used and useful purposes, the allocation percentage would be correct. So therefore, theoretically, they need not match, and I should have used "may not match."

CHAIRMAN CLARK: Mr. Riley, does that answer your question?

MR. RILEY: No, it doesn't, but I was going to 4 try to ask it another way.

5 CHAIRMAN CLARK: Doesn't answer mine either. 6 I don't understand why they don't need to match. The 7 logic behind -- it would seem to me they need to match, 8 and you need to explain to me why they wouldn't match 9 and why that's okay.

Because there's a percentage WITNESS HARTMAN: 10 sometimes used for line losses, and what we did, we 11 looked at the plant itself. So the total flow coming 12 out, and sometimes what's billed to a customer is less 13 than, or most of the time, less than what comes out of 14 15 the plant because of line losses. So that there's a difference there. And as long as it's accounted for 16 17 appropriately --

18 CHAIRMAN CLARK: Well, then is the only thing 19 it is is the difference between what you may bill for 20 and what you're producing?

WITNESS HARTMAN: Yes.

21

22

25

CHAIRMAN CLARK: Is line losses?

WITNESS HARTMAN: And anything else that maybe lost, yes.

CHAIRMAN CLARK: What else? Absent legitimate

1 things like line losses, it seems to me they ought to 2 match. I'm sorry, I don't want to infer that a line 3 loss is legitimate; I just mean that's an explanation I 4 can understand.

5 WITNESS HARTMAN: Well, sometimes there's 6 other uses of water off the system. Sometimes you tap 7 the system and bring the water back through the plant 8 for wash-down and other things like that. So -- it 9 should be a very -- they should be very close, but they 10 need not be --

11 CHAIRMAN CLARK: One is the difference between 12 water produced and water actually metered for --

WITNESS HARTMAN: Yes.

13

14

23

CHAIRMAN CLARK: -- as consumed. Okay.

15 (By Mr. Riley) But is it not true that to the Q extent that you can have a higher number of ERCs for the 16 17 F Schedules, the engineering schedules, that helps the company by causing the plant to be more used and useful; 18 19 is that correct? If the number of ERCs are greater in number in the F Schedules, that's good for the company 20 21 because more of the plant in service is needed? 22 I didn't even look at it that way. All I Α

Q But is that true? Excuse me, is that true or false that the higher the number of ERCs for the F

looked at is what are the ERCs.

1	Schedules, that helps the company	
2	A As active ERCs?	
3	Q Excuse me, to finish the question to	
4	increase the revenue requirement?	
5	A Again, you're in rate design, and I would ask	
6	you to ask another witness on that. I'm not into that.	
7	Q But isn't it an engineering question that as	
8	the ERC numbers increase, the plant which is there is	
9	more utilized? Is that true or false?	
10	A Yes, if you have more ERCs depending on the	
11	circumstances, yes, it would it should be more	
12	utilized.	
13	Q And to the extent that you can understate the	
14	ERCs in the E Schedules, that helps the by increasing	
15	the rates; is that not	
16	A I've never looked at the E schedules, so I	
17	don't know. You're asking the wrong witness.	
18	CHAIRMAN CLARK: That's it?	
19	MR. RILEY: That concludes our questions.	
20	CHAIRMAN CLARK: Mr. Twomey?	
21	MR. PELLEGRINI: Chairman, before you go on, I	
22	might suggest that the order of Mr. Elliott and	
23	Mr. Edmunds may be inverted if that would help.	
24	CHAIRMAN CLARK: We will if we need to. Thank	
25	you.	

1	Go ahead, Mr. Twomey.
2	MR. TWOMEY: Thank you, Madam Chairman.
3	CROSS EXAMINATION
4	BY MR. TWOMEY:
5	Q Good afternoon, Mr. Hartman.
6	A Good afternoon.
7	Q Were you here this morning when the customer
8	testified?
9	A I was here this morning, yes, sir.
10	Q Did you hear the gentleman say that he
11	considers his water rates to be so high that he and his
12	wife restrict the flushing of their toilets?
13	A I heard that, yes, sir.
14	Q One of the things, I take it, that you're
15	let me start over. The Commission presently, in the
16	SSU's last order, adopted their Staff recommendation to
17	use the average of the five highest days in the maximum
18	month for calculating the used and useful portion of
19	water plant, right? Is that how what is they use
20	the average of the five highest days in the maximum
21	month for the calculation of what, Mr. Hartman?
22	A For water supply and treatment, the Staff has
23	utilized the average of the five maximum days, yes.
24	Q To calculate used and useful, right?
25	A Associated with used and useful, yes.

1 Q And the Company witness has proposed, and as I 2 understand it you adopt, the use of the single maximum 3 day of the year for making that calculation; is that 4 correct?

A That's correct.

6 Q And of mathematical necessity, absent the 7 average being equal to the highest day, that means that 8 your recommended methodology would necessarily result in 9 a higher used and useful calculation; isn't that 10 correct?

11

5

A That's correct.

Q So if the Commission -- if the Commission wants to increase the rates to those people this morning, and the increasing the used and useful calculation, all other things being equal, will result in higher rate base and higher rates, right? Or do you know?

A Well, I think that the proper used and useful should be determined -- analysis be determined, and the higher the used and useful the more rate base there is, and all things being equal, the cost per customer would be greater.

23 Q Right. So -- and I don't mean to be tricky 24 about this, but if the Commission wants to increase the 25 rates more than they already are under the methodology

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1	they used in the last case, they will adopt your
2	recommendation and increase the used and useful, right?
3	A The characterization of that question, I
4	just first, I can't speak for the Commission, number
5	one; and number two, I'm stating regulatory requirement
6	and the reality of service, and the investment that is
7	placed in service is for the maximum day. And now we're
8	talking about whether or not the Company can recover its
9	regulatory requirement.
10	Q I understand that. And my simple question to
11	you is, is if they accept your recommendation and depart
12	from what they're doing now, it will increase rates,
13	right?
14	A I don't know. I'm not in the rate design
15	aspect.
16	Q It will increase used and useful, of
17	necessity?
18	A The single maximum day per water plant is
19	greater than the five maximum days, yes.
20	Q Now, one of the other things that you
21	suggested in your summary that you were doing was that
22	you wanted to increase the margin reserve, right?
23	A I believe the reasonable margin reserve for
24	water and wastewater plants should be three and five
25	years, not the 18 months proposed by Staff, but we

1	concurred or utilized the same margin reserve for
2	pipelines as one year.
3	Q Right, but on the whole, your recommendation
4	and what the Company has asked for is a departure from
5	what the PSC did in the Company's last case, correct?
6	A The PSC Staff recommended 18 months.
7	Q That's a yes answer, is that right,
8	Mr. Hartman?
9	A That's correct.
10	Q And that departure, if the Commission makes
11	it, will, of necessity, whether it's right or wrong,
12	increase rate base, right?
13	A It increases the used and useful and therefore
14	increases the rate base in that calculation, yes.
15	Q Good.
16	A And it is the same types of margin reserves as
17	shown in the well, there's three years and three
18	years in the Staff's proposed rules, in the May 1995
19	proposed rules.
20	Q There isn't you said proposed rule?
21	A Well, draft rulemaking.
22	Q There isn't any am I correct in
23	understanding
24	A I misspoke, draft.
25	Q Right. And so I'm correct in understanding

1	that there isn't any rule to that effect, right?
2	A Yes. It was a draft in May of 1995, May 12th.
3	Q So it has no effect?
4	A That's correct.
5	Q Now, another thing I heard you say that you
6	supported that the Company wanted was the hydraulic
7	model analysis, is that right, or did I describe it
8	properly, the hydraulic modeling?
9	A Yes, for four systems.
10	Q For four systems. And Mr. Terrero testifies
11	to that, correct?
12	A And Mr. Edmunds and Mr. Elliott.
13	Q I understand, I think, the reasons you gave in
14	support of that, but let me ask you a bottom line
15	question, Mr. Hartman, and that is, for the four
16	systems let me ask you this. Why didn't the Company
17	propose hydraulic modeling for all of the systems
18	involved in this case?
19	A I don't know.
20	Q Didn't you ask?
21	A I was not involved in that decision.
22	Q Yes, sir. That wasn't my question. You have
23	adopted that position, correct?
24	A I believe that hydraulic analysis should be
25	provided for all the systems, yes. I mean just as in

1 the '82 Staff and Commission policy for looking at used 2 and useful to look at a hydraulic analysis, as well as a 3 state requirement, FDEP requirement, that says all lines 4 must be designed with a hydraulic analysis in the state 5 of Florida, by statute.

Q And I think Public Counsel covered that well.
My question to you is, do you know for the four
systems -- did you analyze the analysis of the four
systems involved?

10 A No.

11 Q Sir?

12 A No.

Q So you can't -- you're just -- are you going
to analyze them at all?

15 A No.

16 Can you say whether the -- strike that. Τ Q 17 understood you to suggest in your testimony and your prefiled and your testimony live here, that the 18 19 hydraulic analysis for the modeling was more reasonable to the utility because it gave it greater recognition of 20 21 what was actually necessary in the system to serve the existing customers, right? 22

A That's correct. And it's a regulatory
requirement that you do a hydraulic analysis for the
design which then means those are the facilities that

1 are invested in, so the investment is based upon a
2 hydraulic analysis by statute, by requirement of the
3 FDEP, so therefore that's the requirement for
4 investment.

I understand, and let me just -- I don't plan 0 5 to take -- I don't want to take very long, but I 6 think -- and I don't object if you give all the 7 explanation if you want to, Mr. Hartman, but I think a 8 yes would have sufficed there, especially since you've 9 given all that before. But if you want to stop with a 10 yes or no with me, that will be fine; if you want to 11 explain, that's fine as well. I would just like you to 12 get credit for the explanation. 13

Does it follow then, that for the four systems for which the Company has proposed hydraulic modeling in this case, that the Company necessarily would get more used and useful and therefore a larger rate base as a result thereof?

19 A Theoretically, the regulatory requirement 20 would come up with a higher number than the lot count 21 method because there's no substantiation for it. But 22 other than that, I think you need to ask Mr. Edmunds, 23 Mr. Elliott and the people that did the work. I'm the 24 wrong witness for that.

25

Q Okay. But the answer would be, to your

knowledge, yes, it would result in a larger used and 1 useful calculation and a larger rate base; is that 2 correct? 3 Theoretically. Α 4 Well, let me ask you, do you know? 5 Q I don't know. 6 Α 7 But --0 CHAIRMAN CLARK: Wait a minute. Wait a 8 What does he know or not know? 9 minute. MR. TWOMEY: I'm trying to ascertain whether 10 he knows --11 CHAIRMAN CLARK: You need to finish your 12 13 question before he answers. Go ahead. Do you know what? I don't get the question and answer. 14 15 (By Mr. Twomey) Do you know whether or not Q the hydraulic modeling proposed for the four systems in 16 17 this case result in higher used and useful percentage than the lot count methodology would for those same 18 19 systems? 20 That's what I inferred your question before to Α be, and the answer is I don't know. 21 22 Q Right, but didn't I correctly hear you say 23 that you assume, or theoretically, it would do so? 24 Because the regulatory requirement is not Α 25 recognized in the lot count method.

1	Q Wouldn't it be consistent, Mr. Hartman, with
2	the rest of what the Company has proposed and what
3	you're adopting, that it would result in a higher rates
4	rather than lower rates?
5	A Again, I'm not your witness for that.
6	Q Do you know who that would be?
7	A I don't know the rate design witness.
8	Q You're listed as being a witness in support of
9	the Company's position on Issue 27, is that correct,
10	which is, what is the correct wastewater treatment plant
11	capacity to use for calculation of SSU's used and useful
12	percentage of Sugarmill Woods, right?
13	A One of them, yes.
14	Q Yes, sir. And you take the position that it's
15	500,000 gallons per day, correct?
16	A I believe so. It initially was 500,000
17	gallons per day. I believe there's an engineer who
18	wrote a letter indicating his opinion there's clarifier
19	limitations on that plant, and I think Mr. Bliss is more
20	knowledgeable of that than me.
21	Q I'm sorry, an engineer?
22	A Mr. Bliss is more knowledgeable of the
23	engineer's letter.
24	Q But just to the extent that you know, an
25	engineer from where wrote

I don't know. That's why I said, you could Ά 1 ask that question of Mr. Bliss. I anticipated your next 2 3 question. So is it your testimony that as far as that 0 4 position goes, you don't know? I mean, are you properly 5 a witness in support of that position? 6 Well, I know the -- I've been to the Sugarmill 7 Ά Woods plant. I know the Sugarmill Woods system. Ι 8 don't know what questions you would be asking me 9 regarding those facilities. 10 Okay. Let me ask you some and we'll see. 11 Q If I could have an identification number, 12 13 Madam Chairman. CHAIRMAN CLARK: 93. 14 93, thank you. 15 MR. TWOMEY: (Exhibit No. 93 marked for identification.) 16 17 0 (By Mr. Twomey) If you know these answers, you can tell me. If not, Mr. Hartman, the same. 18 Your 19 position on 27 is that it should be the 500,000 gallons per day as indicated on the current operating permit on 20 Page 661 of Volume 11, Book 15 of 17. If you'll look at 21 22 Page 61 of this handout, the exhibit, which I hand-wrote 23 these numbers, Madam Chairman, but I --24 CHAIRMAN CLARK: That's good enough. 25 MR. TWOMEY: But I wrote them just the same.

Q (By Mr. Twomey) My first question to you is this permit appears to be expired. Is this the permit y'all mean?

4

A Is that a question to me?

5 Q Yeah, I'm sorry. Let me refer you to the 6 first page, which is 61 in the lower right-hand corner, 7 and it's Page 661 which y'all have referenced in your 8 position on Issue 27. And my first question to you is, 9 is that it appears that the permit, if it's the proper 10 one, and it is shown for Sugarmill Woods Wastewater 11 Treatment Plant, expired September 1st, 1995.

12 A That's what this document shows. Again,
13 Counselor Twomey, I would like to mention to you that
14 your question might be more fruitful with another
15 witness, and that would be Mr. Bliss.

16 Q Let me ask you, since you did say you were 17 familiar with Sugarmill Woods -- and why are you 18 familiar with Sugarmill Woods?

19 A I've again been out to the site and -- but I'm 20 not the engineer of record of all the facilities or 21 anything like that.

Q This may be more appropriate for Mr. Bliss, but it's my understanding that -- well, let me ask you this, isn't it true that on Page 661, that it says that the -- in the second paragraph, it's for operation of a

0.5 million gallon per day Type I oxidation plant? 1 Yes, on your page numbered 61, 1 of 10, and 2 Α 661 on the bottom, it's a half million gallon per day 3 Type I oxidation ditch domestic wastewater treatment 4 plant. 5 Now, it's my understanding that Southern 6 0 States Utilities has had for some years, or until 7 recently, a permit, construction permit, to increase the 8 size of this plant to .7 million gallons per day. Were 9 you aware of that? 10 I'm aware that the expansion of the plant to 11 Α 12 .7 was a consideration by the Company, but I don't have all the other information. 13 Do you know why -- if in fact they haven't 14 Q 15 done that, do you know why they haven't done it? Again, it would be better for you to ask the 16 Α Company witness. 17 Just briefly, Mr. Hartman, you had a 18 0 discussion with Mr. Riley that the nature of the lots, 19 zoning may change in subdivisions after they're platted 20 and so forth. Do you recall that? 21 Yeah, they could be replatted and changed. 22 Α Let me ask you if you know this, and if you 23 0 don't, you can say so. Isn't it true that the state of 24 Florida requires developers to file -- pardon me, I want 25

to get the right name for this -- a Florida Public 1 Offering Statement for their developments? 2 I'm not familiar with the financial aspects of Α 3 development. 4 This is not -- I'm sorry, this is not 5 0 necessarily financial, but are you aware of whether or 6 not developers have to file such statements for the 7 purposes, including stating specific dates by which they 8 will have their infrastructure in place? 9 Well, what, the Division of Land Sales? Ι 10 Α don't know exactly what you're talking about. 11 12 0 Yeah, land sales. There are -- I'm familiar with -- I'm not very 13 Α familiar at all in this area. I specialize in water and 14 15 wastewater utilities. My whole practice is --I don't mean to ask you any questions that's 16 0 not your area. 17 18 Α Thank you. Now Commissioners, and Commissioner Kiesling, 19 Q I apologize for this, but this just came up in the 20 course of Mr. Riley's cross, so I don't have copies, but 21 22 I want to -- just one page. I want to refer you to -you had a discussion about the fact that Mr. Riley asked 23 24 you, I think, if there was a notion of developers having prepaid CIAC, right? And I think you said that it was 25

1	relatively	rare?

2	A No. My answer was that to rely upon that to
3	pay for the expanded capacity, the is remote. What
4	happens is they will they may prepay a little bit of
5	capacity relative to a portion of their development, or
6	for even their entire development, but their development
7	may not necessitate or fund the full cost of the
8	treatment plant expansion. So to rely on that doesn't
9	make a whole lot of sense.
10	Q Yes, sir, but let me ask you this. Do you
11	have access to Volume 12, Book 9 of 27?
12	A Volume 12?
13	Q Yes, sir, 12, 9 of 27?
14	A No. It's not in the F Schedule. I don't have
15	it.
16	Q Does the Company have a copy of it here?
17	MR. FEIL: Perhaps, but not readily available.
18	CHAIRMAN CLARK: Mr. Twomey, what are you
19	looking for?
20	MR. TWOMEY: Volume 12, Book 9 of 27.
21	MR. FEIL: It's in the additional engineering
22	information.
23	MR. TWOMEY: I'll just show him my copy or
24	give it to Mr. Feil. (Pause)
25	WITNESS HARTMAN: I have Page 415 here.

1	Q (By Mr. Twomey) Do you have the page that	
2	shows Sugarmill Woods and shows the dollar amounts for	
3	prepaid CIAC, or did we flop a page there?	
4	A This says nonused and useful.	
5	MR. FEIL: The only thing that says prepaid	
6	CIAC for plant is what somebody has handwritten on this	
7	schedule. The schedule itself does not indicate prepaid	
8	CIAC.	
9	(Pause)	
10	Q (By Mr. Twomey) I apologize for this, since I	
11	don't have the book now. Since it's nonused and useful,	
12	in that category, doesn't it have to be prepaid?	
13	A No.	
14	Q Well, we'll have to work on that.	
15	MR. TWOMEY: Commissioners, I would like to	
16	ask you to refer to I have not made separate copies	
17	of this. I would like to refer Mr. Hartman to an	
18	exhibit in Mr. Woelffer's testimony. If you have that	
19	testimony, I didn't see any necessity in having it	
20	entered twice.	
21	While they're getting that, Mr. Hartman, let	
22	me ask you do you have someone getting it for you?	
23	WITNESS HARTMAN: That testimony, I've got	
24	that in the trunk of my car.	
25	MR. TWOMEY: I'm sure someone else here has	

it -- I would suspect someone else has it and can get 1 2 it for you. Let me ask you while they're doing that, is it 3 4 your testimony in your prefiled testimony, in your responses to Public Counsel, that you think it's 5 6 appropriate that --7 CHAIRMAN CLARK: Mr. Feil, give him this one 8 and I'll look at Commissioner Garcia's. (By Mr. Twomey) Do you think it's appropriate 9 Q 10 that current customers should pay for future growth? Do 11 you think it's appropriate and fair that current customers should pay for future growth? 12 13 Α All customers pay for the system -- the facilities, excuse me. All customers pay for the 14 15 facilities that serve them. So to the extent that growth happens, that's natural for a system. So all 16 17 customers pay. 18 Q So your answer is yes? Well, all customers pay, yes. All customers 19 Α 20 pay. 21 Let me ask you to look at Page 28 at the 0 22 bottom, which is Page 3 of 15 of Exhibit MTW-1. 23 Α Sure. 24 And it's your pleasure, Madam Chair, if you Q want to -- if you want to identify this now or --25

1	CHAIRMAN CLARK: No, I don't think so, because	
2	we don't have extra copies. We don't have independent	
3	copies of it. I don't have anything to give the clerk.	
4	MR. TWOMEY: I'll just refer to it as	
5	Mr. Woelffer's MTW-1.	
6	CHAIRMAN CLARK: That would be fine.	
7	COMMISSIONER GARCIA: This is Page 3 of 15?	
8	MR. TWOMEY: Yes, sir.	
9	Q (By Mr. Twomey) And I would like to ask you	
10	first, in this case, Mr. Hartman, help me be clear in	
11	understanding, in terms of calculating used and useful,	
12	it's my understanding that SSU has calculated the	
13	wastewater treatment plant used and useful percentage by	
14	taking the ratio of the average daily use of the high	
15	use month to the plant's permitted capacity. Is that	
16	generally correct?	
17	A For wastewater treatment plant, I believe most	
18	of the calculations, or all the calculations, are based	
19	upon the maximum month utilization, yes.	
20	Q Right, but just so I'm clear, because I'm not	
21	necessarily as knowledgeable in this as I would like to	
22	be, the maximum month necessarily means the average of	
23	the days of the maximum month, right?	
24	A That's correct.	
25	Q Now, isn't it isn't the purpose of	

calculating the used and useful percentage for 1 wastewater treatment plant to assign the capital asset 2 responsibility to the current customers and separate 3 that capital asset responsibility from that that's 4 responsible for future customers; is that right? 5 No, not necessarily. I mean it's -- the used Α 6 and useful analysis is to recover the prudent 7 investment, regulatory requirements, and for assets 8 serving all the -- the customers that effectively get 9 10 the service. Current -- don't you mean current customers? 11 0 With margins of reserve, yes. 12 Α 13 And in fact, isn't it true, if you know, that Q 14 in the Company's calculations for the used and useful 15 percentages of all the systems for which they're 16 included in this case, that they base their wastewater 17 treatment plant used and useful calculations on 1996 projected numbers, correct? 18 19 Α I believe so. 20 Q I'm sorry, is that --21 I believe so. Α 22 Q Do you know? 23 I believe they have. I'm agreeing. Α Yes. 24 Q I'm sorry. The -- by that you mean yes, they 25 Is that what you mean? did?

Yes, in the used and useful analysis for the Α 1 test year, you would use a test year period, of course. 2 I don't mean to quibble, Mr. Hartman. I'm 3 0 just trying to get a distinction between whether you 4 know for sure, yes, they did or you think they did 5 maybe. 6 COMMISSIONER GARCIA: Mr. Twomey, why don't 7 you ask the question again, because now I'm lost about 8 what you're looking for. I thought he answered you in 9 the affirmative, but I'm not sure. 10 I asked him if he knew, wasn't it MR. TWOMEY: 11 true that SSU in this case based their wastewater 12 treatment plant used and useful percentages on 1996 13 14 projections, and you said? WITNESS HARTMAN: Yes. It's a test year. 15 Good. And isn't it true that 16 (By Mr. Twomey) Q to the 1996 projections, the Company added the five-year 17 18 margin of reserve that it's seeking in this case? That's correct. 19 Α 20 In order to take plant out to the year 2001, Q correct? 21 That's the effect, yes. 22 Α 23 Q And again, as we've discussed earlier, I think, the intention there, or the result, irrespective 24 of the intention, is to assign the current customers of 25

1	this utility rate base responsibility for what the	
2	Company says the used and useful percentages will be in	
3	1996, as well as the next five years, right?	
4	A Yes, that's margin reserve provides for	
5	that period for implementation, as well as variability	
6	in demand, or usage flow characteristics, excuse me.	
7	Q Now, in this exhibit, MTW-1, which begins on	
8	Page 26, it is printed on your letterhead. Do you	
9	recognize it?	
10	A Yes, I did it.	
11	Q I'm sorry, you prepared this analysis,	
12	correct?	
13	A It's for the Englewood Water District.	
14	Q And it's titled or Subject: Wastewater	
15	System, Capital Contribution Charge, right?	
16	A Impact fees or capital charges for	
17	not-for-profit entity. It's not a used and useful	
18	analysis.	
19	Q I'm sorry, that wasn't my question. The	
20	subject is, on Page the first page, Wastewater	
21	System, Capital Contribution Charges, right?	
22	A That's correct.	
23	Q Turn to Page 28, please, which is Page 3 of	
24	your report.	
25	You say in the first sentence, "The purpose of	

1 a capital contribution charge is to assign, to the 2 extent practical, growth-related capital costs to those 3 customers responsible for such additional cost." And by 4 that you mean future customers, right?

5 A That's correct. It's following the Dunedin 6 case on impact fees.

Q Because that's your stated goal, is it not,
Mr. Hartman, to assign costs which are -- by definition,
the capital contribution costs go to future customers,
i0 right?

11 A No, there are some on present customers and 12 future customers, both. There's a capital recovery in 13 the rate, a significant capital recovery in the rate. 14 Q I'm sorry. I thought this study was intended 15 to derive capital contribution charges for impact fees, 16 as you stated.

17 A That's correct. And it allocates the impact 18 fee for public entities, not-for-profit situation, with 19 full cost recovery, not equity contribution, following 20 the Dunedin case. But also, to have a correct answer to 21 your question, a large portion of the capital is within 22 the rate itself.

23 Q My question to you is, though, did you intend 24 to have these charges be paid for by then existing 25 current customers of the system, or -- as opposed to

future customers after the charge was derived? 1 Oh, of course, the charges would be effective Α 2 after the date of implementation for all future 3 customers. 4 Thank you. You say in the same paragraph, on 5 0 Page 3, in the middle, "Generally, this practice has 6 been labeled as, 'growth paying its own way,' without 7 existing user cost burden, " right? 8 That's correct. Uh-huh. Α 9 Now, the middle of the page, you say, "As 10 Q mentioned previously, it is important to ensure that 11 only those assets associated with future customers be 12 reflected in the calculation of the capital contribution 13 Thus, the district's existing assets need to 14 charges. be allocated between existing and future customers." 15 16 Correct? 17 That's correct. Α Now, if I understand you correctly, at the 18 Q bottom of that same paragraph you refer to Page -- or 19 20 Table 1, and you say, "As can be seen, the total wastewater flow treated during this time was 172.9 21 million gallons. The average daily flow treated by the 22 district's wastewater system was therefore approximately 23 0.474 MGD," or million gallons per day. 24 25 Now, did you -- does that mean, Mr. Hartman,

1	that I've done the math on this to check it. It
2	appears to me that you took a straight average, that you
3	divided 172.9 million gallons by 365 days. Is that what
4	you did?
5	A Yes.
6	Q Because that the result is that it
7	assigns let me put it in the form of a question.
8	Isn't the result that this methodology assigns a
9	large a larger percentage of existing assets to
10	future customers than if you use some other methodology?
11	A Well, what is the other methodology you're
12	talking about?
13	Q Well, for example, doesn't your methodology
14	described on Page 3 result in a lower number assigned to
15	current customers than if you took an average of the
16	highest month use?
17	A You would be breaching the Dunedin case.
18	There's provisions. This is an impact fee study, not a
19	used and useful study.
20	CHAIRMAN CLARK: Mr. Hartman, let me interrupt
21	you just for a minute. I have trouble following you
22	when I don't hear a yes or a no to what Mr. Twomey
23	said.
24	WITNESS HARTMAN: The answer is yes. You
25	could come up with another methodology to lower the

1 impact fee. That's true.

2	Q (By Mr. Twomey) And if my clients were
3	prepared to stipulate now that they would accept their
4	used and useful calculations based upon average daily
5	flows on a yearly basis, would you recommend that to
6	your client?
7	My client is prepared right now to stipulate
8	that they'll accept a used and useful formulation based
9	upon average daily flows over the course of the year.
10	Would you recommend that to SSU?
11	MR. FEIL: Can I ask for clarification? Which
12	clients are you referring to? You represent a number of
13	associations, and I guess for clarification purposes I
14	would like to know which clients you're referring to.
15	MR. TWOMEY: I'm referring to SSU. Oh, my
16	clients?
17	MR. FEIL: Yes, sir.
18	MR. TWOMEY: All of them.
19	WITNESS HARTMAN: Number one, I don't
20	negotiate for the Company any settlement offer. I think
21	that's between you and the other attorneys. You guys
22	could talk about it. I can't answer that.
23	COMMISSIONER DEASON: I believe his question
24	was would you recommend that to your client?
25	WITNESS HARTMAN: Absolutely not, because it

1 doesn't follow these things, but if the Company wants to 2 do whatever they want to do. I mean, it's not my 3 purview.

4 COMMISSIONER GARCIA: Absolutely not because?
5 WITNESS HARTMAN: Because it's not right. One
6 is an impact fee and the other is a used and useful
7 analysis. One is a public entity and this is a
8 regulated utility. Totally different situation. It's
9 apples and oranges. (Pause)

MR. TWOMEY: I apologize. Did the commissioners -- did the commissioner ask you if you would recommend it, not --

CHAIRMAN CLARK: Yes, Mr. Twomey. It was 13 asked if he would recommend it. He said absolutely not. 14 (By Mr. Twomey) I'm sorry, and why not? 15 Q Because one is a used and useful analysis and 16 Α the other is an impact fee study, totally -- it's apples 17 18 and oranges. Two totally different things. It's not 19 right.

Q Well, isn't the -- again, you say in the middle of Page 3, Mr. Hartman, "It is important to ensure that only those assets associated with future customers be reflected in the calculation of capital contribution charges," right?

25

A Yes. We're talking about rates and charges

here versus capital contribution. 1 I understand that. But my question to you is, 0 2 if you get the -- if you segregate the assets associated 3 with future customers, what's left? 4 Well, first, what's left under this analysis 5 Α is assets associated with existing customers, of 6 course. But that's a different -- and that's solely on 7 plant. Understand that this doesn't incorporate a lot 8 of the other aspects. 9 Right, but to be clear I understand you, you 10 Q concede that what's left after you determine what is 11 segregated for future customers is for current 12 customers, right? 13 14 Α In this impact fee analysis for Englewood Water District, that's correct. 15 That's a yes answer, correct? 16 0 17 That's correct. I'm saying a yes answer for Α the treatment of plant component only, and that's all 18 this recovers, less 100 percent recovery. It's a 19 20 totally different situation. And for water or wastewater treatment plant, 21 Q if you know, in a rate case situation, isn't that 22 designated used and useful? 23 Totally different. 24 Α 25 What is it called, in a rate case context, Q

1	Mr.	Hartman?

2	A Well, used and useful analysis takes in all		
3	the considerations that go in the regulation for used		
4	and useful. An impact fee analysis follows the Dunedin		
5	case in the state of Florida, for 100 percent recovery		
6	of capital costs, as well as recovery of capital costs		
7	in rates and charges. So it's a totally different		
8	animal. I've been involved in both, and quite a few		
9	rate studies, and capital fee studies and all that kind		
10	of stuff.		
11	Q Let me ask you this. And I don't mean to beat		
12	a dead horse on this, but if you took only the assets		
13	associated with current customers, couldn't that be		
14	called, or shouldn't that be called, used and useful		
15	rate base for current customers?		
16	A All assets associated with existing customers		
17	for their service should be considered in used and		
18	useful, yes.		
19	MR. TWOMEY: That's all I have.		
20	CHAIRMAN CLARK: Staff?		
21	Mr. Hoffman, will you give me that testimony		
22	back?		
23	CROSS EXAMINATION		
24	BY MR. PELLEGRINI:		
25	Q Good afternoon, Mr. Hartman.		
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Good afternoon.

Q To begin with, I want to take you back to portions of your summary statement earlier this afternoon, and at one point you stated that the state of Florida requires hydraulic analysis. Is that for used and useful determinations?

A No, sir. That's in the design of the
8 facilities. It's by reference to Ten States Standards,
9 Section 8, Pages 114 and 115.

Q Thank you. Are you advocating no formulas for determining used and useful and recommending the use of engineering judgment on a case-by-case basis instead?

I have absolutely no formulas at all, but 13 Α No. the formula by itself, I believe, taken out of context, 14 doesn't represent investment necessary to serve a 15 customer in the way it's being applied today. If you 16 took into consideration the economies of scale, took 17 into consideration the necessary facilities to meet 18 19 regulations, which it states you're supposed to, versus 20 just counting lots, then you could count lots also. And that's something, but I think you should consider it and 21 should weigh it against the hydraulic analysis of the 22 system, which was stated in 1982 by the Commission Staff 23 and basically accepted by the Commission. 24

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Q

Can you cite the case?

It's in my rebuttal testimony. It's in the 1 Α It's the memoranda, Page 13 of GCH-7, and it workshop. 2 has formulas in it and it references -- it's a memorandum 3 from J.O. Collier to Dale Knapp dated November 14th, 4 1982, talking about the Staff, water and sewer 5 presentations of the Commission. 6 We have that citation. I thought you were 7 Q making reference to a case. 8 No, no. May 3rd, 1982. 9 Α So then your position is that you would favor 10 0 the use of formulas supplemented by engineering judgment 11 on a case-by-case basis. Is that a fair statement of 12 your position? 13 Well, first, I think it's inverse of that. 14 Α 15 It's -- if you flipped it, it would be the fair estimate. The first thing you look at is what is the 16 regulatory requirement? Then there's no need to use a 17 18 formula because if it's a regulatory requirement for that investment, it should be recovered, okay? 19 So that's 100 percent used and useful. 20 21 The consent order situation investment that's 22 talked about before, the design criteria imposed by the state, local and federal agencies, as stated on Page 12 23 of that memoranda, is supposed to be in there. And then 24 25 once that's done, then you also provide for capacity

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1	sufficient for down time, that's Item 7, seasonal
2	variations, Item 8, safe withdrawal levels, which was
3	Item 9, and Mary Clark's finding of fact and conclusions
4	of law in the Cocoa vs. Corporation of the President
5	case in 1990, confirm that same statement as the
6	prevailing requirements, and provide for fire flow
7	requirements. If you look at economy of scale, then you
8	apply a formula. So it's the inverse of what you're
9	saying. First you go through what you have to invest.
10	You should recover what you've got to spend to serve
11	somebody. And then you look at the formula.
12	Q Is it not the case that the formulas that you
13	refer to in the 1982 memorandum apply only to two
14	components, that is plant and lines?
15	A That's correct. Things have changed. How
16	used and useful has been applied has changed over the
17	years. In 1982, in place in 1983, and I think a lot of
18	the assets were acquired negotiated and acquired in
19	'84 and '85. These were the criteria.
20	Q That's different from what the Company is
21	proposing now, that is by component; would you agree?
22	A That's correct.
23	Q Would you agree that it's appropriate to
24	consider fire flow for appropriate components, depending
25	on if a facility has depending on whether or not a

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1 || facility has storage?

That's correct. Α 2 You spoke earlier of your involvement with Q 3 Sarasota County. 4 Yes. 5 Α That county is not under PSC jurisdiction; you 0 6 7 would agree? I would agree. And in Sarasota County they 8 Α were looking to acquire VGU, Venice Gardens Utilities, 9 and to make that investment, yet they allowed 100 10 percent used and useful all the regulatory requirements, 11 and they knew they were going to have to turn around and 12 purchase the system. So it shows that the other county 13 entities that have taken back jurisdiction do recognize 14 regulatory requirements in setting rates and charges. 15 16 0 But the rate making process in Sarasota County 17 may be very different from the Commission's rate making process; isn't that true? 18 19 There are some differences. Α You at several points use the term adequate 20 Q 21 and/or sufficient storage, emergency storage, storage. Can you define that -- can you define what you mean by 22 "adequate storage"? 23 24 Meeting all the storage service needs. Α And 25 that would be, number one, to provide for the

1	fluctuating demand; number two, to provide for fire
2	flow; number three, to provide for emergency storage;
3	and number 4, to provide for the facility storage
4	necessary for vortexing or dead storage.
5	Q Again, at several points you talked about the
6	aquifer as being the largest source of supply.
7	A It is.
8	Q Of course it is. Would an appropriate
9	inference from that be that utilities should not build
10	storage?
11	A No. You have to assess the situation.
12	Storage is quite beneficial. It depends on the
13	circumstance. But to state that you cannot economically
14	meet your peaking needs from the aquifer is
15	inappropriate. That's all I was responding to.
16	Q In the DEP rule having to do with the
17	five-year planning period; is that planning period
18	called margin reserve?
19	A No, it's not.
20	Q Is five years planning necessary if there is
21	no or little anticipated growth?
22	A If there's no growth, it's a moot point. Then
23	the margin reserve would be zero. So it's probably just
24	a good practice to provide for it, because in the
25	implementation, if there's no growth or no provision,

1 then you're looking at no impact.

2	Q Much of the ground that I had planned to cover
3	has been covered by OPC and by Mr. Twomey, so I'm going
4	to be very careful, try to be very careful not to
5	recover that ground. But I want to ask you a question
6	or two at this point concerning your testimony relative
7	to reuse.
8	Let me ask you this. Do you believe that a
9	reuse system should be I believe you did state that a
10	reuse system should be considered 100 percent used and
11	useful.
12	A Yes, and I believe the only reuse systems that
13	are applied for in this case, for 100 percent used and
14	useful, are the beneficial public access reuse systems;
15	not even all four that you could apply for, it's just
16	the top one.
17	Q Are dual percolation pond facilities
18	considered a reuse system if there is no reduction in
19	customer demand?
20	MR. FEIL: I'm sorry, were you referring to no
21	reduction in customer demand for water?
22	MR. PELLEGRINI: On the water resource, yes.
23	WITNESS HARTMAN: I believe if it's part of a
24	rapid infiltration basin system, it falls in the lowest
25	category, with dual systems, dual ponds. If it's just a

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1	singular perc pond or that type of thing, I don't
2	believe that it would fall in that classification.
3	Q (By Mr. Pellegrini) If one percolation pond
4	does not constitute a reuse system and I think that
5	was your testimony earlier?
6	A Yes. Personally, I was asked how I look at
7	it. I don't consider it reuse.
8	Q What has materialized with a second
9	percolation pond such that now the dual such that now
10	the two ponds do constitute a reuse system?
11	MR. FEIL: I'm sorry, I thought he already
12	answered this question. He said that two ponds, if they
13	were used as part of an infiltration basin.
14	WITNESS HARTMAN: A rapid infiltration basin.
15	That's a recharging system. Now if it's just an
16	effluent disposal facility, of course not. But there's
17	a design the problem you're venturing into is you can
18	design them to have only two and a rapid infiltration
19	recharge system with a wetting and drying cycle, and
20	therefore it would be the lowest form of reuse as
21	aquifer recharge. You're treading on that. And that's
22	why I can't answer you. If it's effluent disposal only,
23	of course it's not reused.
24	Q (By Mr. Pellegrini) Would you agree,
25	Mr. Hartman, that the DEP does not permit utilities with

1 less than 100,000 gallons per day capacity to have a
2 reuse system?

Does not allow them to have one? Α 3 That's the question. Yes. 4 Q They are not -- there are certain requirements Ά 5 that are lessened, and they're not considered reuse --6 they're not mandated to consider a reuse feasibility 7 study, that's correct, but not -- to preclude them from 8 having one, I don't think that's correct, because 9 there's quite a few small systems that have reuse, you 10 know. I don't think there's a preclusion. It's just 11 that the requirements are not there and you are not 12 forced toward it. They don't consider it cost-effective 13 below 100,000 gallons a day, and it's not as 14 15 significant. (Pause) Mr. Hartman, in your opinion, are percolation 16 0

ponds an efficient method for recharging the aquifer?
A If designed in the rapid infiltration basin
format, yes.

Q But in reality, do they operate as an
efficient method for recharging the aquifer?
A If not designed in that method, they are not
maintaining the bottom and therefore they don't
percolate well, they go out laterally. The rapid
infiltration basins are disked and cleaned in the bottom

and therefore are efficient. The others are not. So 1 because the requirements may not be done like that, it 2 would be inefficient if not in the rapid infiltration 3 basin category. 4 Well, in your experience are percolation ponds 5 0 for the most part well designed as rapid infiltration 6 7 systems? I mean, it depends. That's a difficult one. Α 8 I've seen some that are well designed and some that, you 9 know, I would make modifications to. 10 The point of the questioning, of course, is to 11 0 determine whether in your opinion percolation ponds are 12 indeed serving to efficiently recharge the aquifer? 13 MR. FEIL: For clarification, you've made 14 three references now to efficiently. I assume you are 15 referring to efficiently from an engineering technical 16 standpoint and not efficient from a financial or --17 18 standpoint. MR. PELLEGRINI: Yes, I'll accept that 19 20 limitation to the question. 21 WITNESS HARTMAN: And I hate to answer you the same way, but my answer was, if designed as a rapid 22 23 infiltration basin, they are efficient. If not, and not maintained and not cleaned and disked and that kind of 24 thing, usually they're not very efficient because over 25

time salts accumulate and basically plug the 1 percolation. 2 (By Mr. Pellegrini) Mr. Hartman, let me turn Q 3 your attention to your rebuttal testimony at Page 45, 4 5 please. Α Yes, sir. 6 At Lines 1 and 2, you discuss a DEP 7 0 requirement controlling the -- a DEP requirement 8 concerning setback distance of a minimum of 500 feet 9 from the wetted perimeter. Do you see that? 10 Yes, from new sources, yes. 11 Α Can you -- would you cite for me please the 12 Q 13 particular DEP requirement? I would have to give that to you as a 14 Α 15 late-filed. I didn't bring that with me. 16 Q All right. Should we identify that, Chairman 17 Clark? 18 CHAIRMAN CLARK: Yes, Mr. Pellegrini. Can you 19 give me a title? 20 WITNESS HARTMAN: I would entitle it DEP 500-21 Foot Setback Requirement. CHAIRMAN CLARK: That would be Late-filed 22 Exhibit 94. 23 24 (Late-filed Exhibit 94 identified.) 25 Q (By Mr. Pellegrini) Next I have a few

1	questions concerning the economies of scale.
2	A Yes, sir.
3	Q And again, with reference to your rebuttal
4	testimony at Pages 3 and 4.
5	A Yes, sir.
6	Q You got there before I did. There you give an
7	example of economies of scale wherein a 10,000 gallon
8	per day water treatment plant could cost \$6,000 to
9	build, but 100,000 gallons per day at the plant would
10	cost \$250,000 to build, that is \$6 per gallon versus
11	\$2.50 per gallon; is that correct?
12	A That's correct.
13	Q If we add some more data to this hypothetical
14	example. Assume, if you would, that your system has 30
15	ERCs today, with each ERC using between 300 and 350
16	GPD.
17	A Okay.
18	Q Then these 30 existing customers would bear
19	the cost of any system built today; would you agree?
20	A Sure.
21	Q Would you agree that the \$60,000 divided
22	between 30 customers equalling \$2,000 per customer
23	well, that the \$60,000 divided amongst the 30 customers
24	would equal \$2,000 per customer, while \$250,000 divided
25	by that same number of customers would equal over \$8300

per customer? 1

2	A Yes, that's the calculation there.
3	Q Would you agree then that those existing 30
4	customers, that these 30 existing customers, are
5	economically penalized to the advantage of the utility?
6	A No. What we're saying, again, is that it
7	would pay for in the economy of scale evaluations,
8	you would pay for whatever that investment was. So if
9	the necessary investment was \$60,000 for those 30
10	customers and that's what they would have paid for the
11	10,000 gallon per day plant, okay? Well, that \$60,000
12	should go into rate base versus the 250,000. So it
13	would only be, say, 25 percent, or 20 percent of 25
14	percent of used and useful. But if you looked at 10,000
15	gallons to 100,000 gallons, it would show you at 10
16	percent used and useful, or you would only have \$25,000
17	in rate base. So what I'm saying, we're not advocating
18	that the existing customer be harmed at all. No
19	additional cost to the existing customer, but giving the
20	opportunity to reach the economy of scale and save money
21	in the future.
22	Q I want to turn your attention to the exhibit
23	in your rebuttal testimony, GCH-7, Pages 14 through 17.
24	A 14, yes.
25	COMMISSIONER GARCIA: Sorry, Mr. Pellegrini, I

COMMISSIONER GARCIA: Sorry, Mr. Pellegrini, I

missed that.
MR. PELLEGRINI: GCH-7. Pages 14 through 17.
Q (By Mr. Pellegrini) Do the formulas shown
there, Mr. Hartman, include an economies of scale
allowance, in Pages 14 through 17?
A No, they don't. These are the default
formulas.
Q Yes. In fact, Mr. Hartman, would you agree
that it's difficult, if not impossible, to account for
economies of scale by means of formula? Used and useful
formulas, I mean.
A No, because my whole report is formulas
showing the economies of scale. That's not true. What
is true, a formula, on a very small system, I agree,
going back to Page 13, the Staff said, a formula for a
very small system is often very difficult or impossible
to apply. So the actual default formulas were shown not
to be terribly applicable in small systems. It requires
a great amount of flexibility to develop reasonable
allocations which result in reasonable rates to the

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21 customer, and that's Page 13, right before Page 14. And the Staff did state that formulas are very difficult to apply by themselves without judgment.

I'm going to refer your attention to an Q exhibit which I'm about to hand out, Mr. Hartman, in

fact two exhibits, which I will refer to in due course. 1 CHAIRMAN CLARK: Mr. Pellegrini, which one are 2 you going to refer to first? 3 MR. PELLEGRINI: I'm going to refer first, 4 Chairman Clark, to the 5-12-95 Draft of Proposed Rule. 5 CHAIRMAN CLARK: That will be identified as 6 Exhibit 95. That is the copy of Staff's Draft Rules on 7 And Used and Useful with May 12, 1995 Rule Attached. 8 SSU's response to OPC interrogatory -- or is that POD? 9 MR. PELLEGRINI: Yes, it's improperly 10 It should be POD No. 121. identified. 11 CHAIRMAN CLARK: That will be marked as 12 Exhibit 96. 13 (Exhibit Nos. 95 and 96 marked for 14 identification.). 15 (By Mr. Pellegrini) But first, Mr. Hartman, I 16 0 17 want to refer you to your rebuttal testimony on Pages 20 and 21. 18 Yes, sir. 19 Α There you have testimony regarding fire flow. 20 0 My question is, do you believe that in order for a 21 utility to be allowed fire flow provisions in used and 22 useful there should be some means of providing fire 23 flow? 24 25 Α Yes.

Would you agree with the -- referring you now 1 0 to the proposed rule, used and useful rule, would you 2 agree with Commission Staff -- Commission Staff's draft 3 of the proposed rules regarding fire flows? Let me cite 4 you to Page 8 of the rule. (Pause) 5 Well, the last sentence on Point 1, Page 8, 6 Α provides a penalty, if a fire flow is not shown to be 7 adequate, of 50 basis points until adequate fire 8 protection is once again attained. Up until that, 9 that's a rate making and subjective -- something that in 10 rulemaking the Commission would have to consider. But 11 up to that point, on one, I would agree. 12 You're stating that you have no opinion on 13 Q that last sentence, but that otherwise you would agree 14 15 with the rule; is that right? With Item 1 of that. I haven't -- and two, so 16 Α 17 far, looks fine. Take your time. 18 Q 19 Α Again, reasonable timetable, again, that --20 the timetable aspect and the enforcement aspects, again, would be discretionary to the Commission. 21 22 And three is -- are the typical requirements. And since there's a provision for regulatory 23 requirements, it looks very much appropriate. 24 25 And four is appropriate for a reconciliation.

So fire flow aspects of this -- other than the two 1 things that, really, as an engineer, I have no say in. 2 But the technical aspects seem very appropriate. 3 Mr. Hartman, would you please refer now to 0 Δ your direct testimony at Pages 12 and 13? 5 Yes, sir. 6 Α There, Mr. Hartman, you state that the only 7 Q time used and useful should be reevaluated is when 8 capacity was added to a component since the last 9 evaluation of used and useful; is that correct? 10 Yes, and I would modify that slightly, 11 Α verbally, to in the summary saying that if there's an 12 obvious error, but that should be a remote --13 Yes, I recall that. 14 0 15 If there's ever an error, of course it should A 16 be corrected. 17 Q I wanted to ask you about used and useful for 18 mains, apart from the four water facilities for which 19 SSU is proposing the hydraulic modeling methodology. In the current rate proceeding SSU is proposing a 20 methodology for determining used and useful for 21 transmission and distribution mains and for collection 22 23 systems, a methodology which you adopt and endorse, which differs significantly from the methodology 24 25 proposed and used in the last rate proceeding. Would

1 you agree with that?

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A It does differ between the two.

Q Here in the present proceeding the utility is comparing projected meters in service to the number of lots available; would you agree?

6 MR. FEIL: For clarification, Mr. Bliss is the 7 listed witness on this issue. So perhaps it would be 8 more effective for you to refer these questions to 9 Mr. Bliss. Although Mr. Hartman did accept the 10 methodologies used, I don't know that he is intimately 11 familiar with every detailed calculation regarding that 12 methodology.

MR. PELLEGRINI: It is our understanding that Mr. Hartman is familiar with the respective methodologies, that is the methodology being proposed in this case and the methodology used in the prior case.

MR. FEIL: Well, if he knows the answer, he
18 knows the answer. If he doesn't, he doesn't. Go
19 ahead.

20 Q (By Mr. Pellegrini) Should I repeat the 21 question?

A You asked if the connected customers versus
lots as a ratio for lot count method.

Q Well, I asked if you would agree that the utility in the present proceeding is comparing projected

1	meters in service to the number of lots available.
2	A I don't recall that.
3	Q You don't
4	A I don't know if that's exact again, Chuck
5	Bliss is the one that did most of this work. I talked
6	to him about the engineering standards and that kind of
7	thing.
8	Q Well, given your understanding your
9	understanding that the two methodologies are different
10	in some respects, the question really is this: If the
11	new methodology is found to be the more appropriate,
12	should it be the one to be used in the present
13	proceeding?
14	A If the Company is filing in the F Schedules
15	for used and useful with a request for, and it's found
16	to be appropriate, I think the used and useful should be
17	adopted, and if it differs from a previous one and
18	picked up the correction, or something else, then it
19	should be adopted.
20	Q Turning to a different topic for a moment,
21	Mr. Hartman. Is it correct is it correct that you
22	charged SSU a flat fee of \$25,000 for preparing
23	testimony, attending depositions and hearings and
24	discovery in this proceeding, in this rate proceeding?
25	A No. I didn't charge a flat fee. I charged

1	it's hourly. My services are on an hourly basis. That
2	might be the upset limit.
3	Q I'm sorry, what was the last?
4	A That might be an upset limit or something. I
5	don't know. Things on our contracts that get out of
6	to get
7	COMMISSIONER GARCIA: That might be a what?
8	I'm sorry, I didn't hear your answer.
9	WITNESS HARTMAN: It could be an upset limit,
10	which would be like you cannot exceed a budget of
11	\$25,000. But all my charges are hourly. There's no
12	lump sums or flat fees. I just get paid hour by hour
13	for my services.
14	Q (By Mr. Pellegrini) Are you aware that the
15	invoice the invoice shows a charge of 24 on the
16	tracking log shows an amount of \$25,000?
17	A I am not aware of that. I am not involved in
18	our billing.
19	Q Let me turn your attention to the second
20	exhibit that is SSU's Response to OPC's Interrogatory
21	POD No. 121, Exhibit No. 96.
22	Isn't it true that this response, dated July
23	18, 1995, states that there are no reports, studies or
24	other documents in the Company's custody or control
25	which address the subject of economies of scale?

1	MR. FEIL: Commissioner, I do have an
2	objection to this interrogatory. It's dated July of
3	'95. Mr. Hartman's name is not listed as a witness or
4	a respondent here. And Mr. Hartman says in his
5	testimony on Page 3, Lines 8, when Page 3, Lines 5
6	through 11, when the economy of scale evaluation was
7	completed and when it was provided to the parties. So
8	in terms of relevance, I don't see how this
9	CHAIRMAN CLARK: Mr. Feil, I think he can be
10	asked a question on this.
11	MR. FEIL: Very well.
12	CHAIRMAN CLARK: Go ahead, Mr. Pellegrini.
13	Q (By Mr. Pellegrini) Mr. Hartman, let me ask
14	you again, isn't it true that this response, dated July
15	18, 1995, states that there are no reports, studies or
16	other documents in the Company's custody or control
17	which address the subject of economies of scale?
18	A Of the Company's storage, treatment,
19	collection and distribution systems, or storage,
20	treatment, collection, distribution systems of water and
21	sewer companies in general. And the respondent was
22	Charles E. Wood, and the response was none available.
23	Q Well, all right. The answer to my question,
24	as I phrased it, is yes?
25	A Yes, it says "none available," right there.

E	
1	Q Did you prepare an economies of scale study?
2	A Yes, we did.
3	Q Did you charge the utility approximately
4	\$47,000 for that economies of scale study?
5	A In the \$40,000 range was my recollection of
6	the budget, yes.
7	Q In the \$40,000 range?
8	A Somewhere in there, between 40- to \$50,000.
9	Again, I'm not the guy that does that. It sounds about
10	correct for the study.
11	Q Now Mr. Hartman, I'm going to direct your
12	attention to a further exhibit. This is entitled
13	Invoice Tracking Log dated 10-27-95.
14	CHAIRMAN CLARK: That will be Exhibit No. 97,
15	and it's Invoice Tracking Log for Hartman & Associates,
16	being the vendor.
17	WITNESS HARTMAN: I have it.
18	(Exhibit No. 97 marked for identification.)
19	Q (By Mr. Pellegrini) Could you read for me,
20	Mr. Hartman, the figure at the lower right-hand corner?
21	A Current contract amount, \$44,710.
22	Q And this is this represents an invoice from
23	Hartman & Associates?
24	A No, it's just a tracking log of the invoices.
25	Our invoices are shown there on the left, Invoice Nos.

1, 2, 3, 4, 5 and 6, and they vary from 3,000 to 9,600. 1 Yes. And the -- would you read for me the 2 Q project description? 3 Economy of Scale Evaluation. 4 Α And the SSU project number? 5 Q 95RA100. 6 Α Would you read the date associated with 7 Ο 8 Invoice No. 1, please? Invoice date was May 26, 1995. 9 Α 10 Let me turn you back to the previous exhibit, 0 11 Exhibit 96, having a response date of 7-18-95. Yes, sir. 12 Α 13 And we've agreed that that response indicates Q 14 that no reports, studies or other documents in the Company's custody or control, that there are no such 15 reports, studies or documents addressing the subject of 16 17 economies of scale, haven't we? 18 That's correct. Α 19 Q And yet we've just established that an economy 20 of scale evaluation was underway, at least by May 26th, 1995, some two months earlier? 21 I believe the connection there would be 22 Α Yes. that I don't think our firm provided a draft report to 23 the Company prior to July 18th, 1995. So that's 24 probably the situation. We were contracted and we were 25

working on the project, and we would submit a draft 1 report and then a final report. 2 My concern, however, is that there was an Q 3 awareness on 7-18-95 that an economies of scale study 4 was at least underway. Is that not true? 5 There should be. It was underway. Α 6 To your knowledge was that study prepared for 7 0 some other purpose than for this rate proceeding, the 8 economies of scale study? 9 We were asked to prepare the economy of scale 10 Α study, and one of the purposes for the preparation was 11 for the rate proceeding, but there were other purposes 12 13 also. Were you aware of other purposes? 14 Q Yes, use of the study for cost-effective 15 Α It's a very good document for that. 16 sizing. To your knowledge, was it prepared for the 17 Q purposes of used and useful rulemaking? 18 I wish I was in their head. I can't state to 19 Α 20 you. 21 Only if you know. Q All I can say to you is that we prepared the 22 Α work. We're a technical company. You would have to ask 23 24 Ralph Terrero -- I guess is here as the project manager -- of the purposes for that report. 25

Q I think one final question on this subject,
 Mr. Hartman. What would you consider to be the useful
 life of this study?

4	A Oh, a very long time. It's all indexed to the									
5	Engineering News Record, 5-5 I believe a lot of the									
6	stuff is it's indexed. So all you have to do is go									
7	back to the Engineering News Record and change the									
8	indices and intermittently update it, but it would be a									
9	very useful tool for a long time. I did a similar study									
10	for Orange County in 1980, and they still use it, 1996.									
11	Q By a long time, would you mean, for example,									
12	30 years?									
13	A Probably the technology would change in 30									
14	years, but you know, 10 years it can be used, once it's									
15	updated. That's an estimate.									
16	Q I want to take you back to the subject of									
17	reuse for just a moment. In both the DEP statute and in									
18	the PSC statute concerning reuse, the terms "prudent" or									
19	"prudently incurred" appear. Do you agree?									
20	A That's correct.									
21	Q You agree?									
22	A Yes.									
23	Q Why, in your opinion, do those terms appear in									
24	those statutes?									
25	A Well, when you're recovering costs, you should									

1 only recover costs of prudent investment. So some crazy 2 situation or imprudent investment, you know, why should 3 there be a -- the person making the decision for the 4 imprudent investment probably would have the burden of 5 risk.

Q Well, let me ask you this. Would you not -would you not distinguish "prudently incurred costs" for a reuse project from "all costs" incurred in a reuse project?

I don't know of any imprudent costs in a reuse 10 Α I don't know -- I can't cite you any examples, project. 11 because the consultant looks at it first and provides a 12 cost-effectiveness study. The client reviews it. The 13 Water Management District reviews it. Then you have --14 the financial lending institution looks at, why are you 15 doing this thing, and they do a due diligence. And then 16 here at the Staff they're looking at it, so -- as well 17 18 as DEP as a guideline.

19 Q I recall you testified to that earlier, but if 20 we accept your thesis, then those phrases would seem to 21 be superfluous in the statutes; would you agree?

A Yes. But I think that the -- yes, my answer would be yes. A diligent company with honest, you know, intellectually honest people doing their work and going through the whole process, it should be superfluous.

Nevertheless you would agree they exist in the Q 1 statute and those phrases are there? 2 Because sometimes people do crazy things. I 3 Α don't know. 4 One final question, does the phrasing of the 5 0 PSC statute suggest to you that the legislature has 6 7 charged this Commission with the responsibility to determine the prudence of costs incurred in reuse 8 projects? 9 The prudence of the costs incurred? 10 Α Yes. 11 0 12 Α I don't know. I don't, I don't -- because you would have to relate the statute, since 100 percent of 13 the costs to be recovered -- I'm thinking this out now. 14 15 It's a good question. And then the prudency of it -well, if you went through all the steps, of course there 16 17 would be a review by the Staff here on the prudency of the investment. 18 19 MR. PELLEGRINI: No further questions. Thank 20 you, Mr. Hartman. 21 CHAIRMAN CLARK: Commissioners? Redirect? 22 (Transcript continues in sequence in 23 Volume 10.) 24 25

250495-WS ΜØ 96-0422-TDA PUBLIC SERVICE COMMISSION

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In re: Application by Southern States Utilities Inc. for rate increase and increase in service availability charges for Orange-Osceola Utilities, Inc. in Osceola County, and in Bradford, Brevard, Charlotte, Citrus, Clay, Collier, Duval, Hernando, Highlands, Hillsborough, Lake, Lee, Marion, Martin, Nassau, Orange, Osceola, Pasco, Polk, Putnam, Seminole, St. Johns, St. Lucie, Volusia, and Washington Counties.

DOCKET NO. 950495-WS

13

CUSTOMER CROSS-EXAMINATION EXHIBIT NUMBER

FLOBIDA PUBLIC SERVICE COMMISSIO DOCKET NO EXHIBIT NO COMPANY WITNESS DATE:

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

In re: Application for a rate increase) in Citrus, Martin, Marion, and) Charlotte/Lee Counties by SOUTHERN) STATES UTILITIES, INC.; in Collier) County by MARCO ISLAND UTILITIES) (DELTONA) and MARCO SHORES UTILITIES) (DELTONA); in Marion County by MARION) OAKS UTILITIES (UNITED FLORIDA); and in) Washington County by SUNNY HILLS) UTILITIES (UNITED FLORIDA))

DOCKET NO. 900329-WS ORDER NO. 24715

ISSUED: 6/26/91

The following Commissioners participated in the disposition of this matter:

BETTY EASLEY GERALD L. GUNTER

APPEARANCES:

B. KENNETH GATLIN and WAYNE L. SCHIEFELBEIN, Esquires, Gatlin, Woods, Carlson & Cowdery, 1709-D Mahan Drive, Tallahassee, Florida 32308

On behalf of Southern States Utilities, Inc.

PATRICK K. WIGGINS, Esquire and ROBERT SCHEFFEL WRIGHT, Class B Practitioner, Wiggins and Villacorta, 501 East Tennessee Street, Suite B, Tallahassee, Florida 32308 On behalf of Cypress and Oak Villages Association

JACK SHREVE and HAROLD McLEAN, Esquires, Office of the Public Counsel, Claude Pepper Building, Room 812, 111 West Madison Street, Tallahassee, Florida 32399-1400 On behalf of the Citizens of the State of Florida

ROBERT J. PIERSON, MATTHEW J. FEIL and NOREEN S. DAVIS, Esquires, Florida Public Service Commission, Division of Legal Services, 101 East Gaines Street, Tallahassee, Florida 32399-0863 On behalf of the Commission Staff

PRENTICE P. PRUITT, Esquire, Florida Public Service Commission, Office of the General Counsel, 101 East Gaines Street, Tallahassee, Florida 32399-0850 Counsel to the Commissioners

> DOCUMENT NUMBER-DATE 06399 JUN 26 1991 PPSC-RECORDS/REPORTING

FINAL ORDER DENYING APPLICATION FOR INCREASED RATES AND CHARGES

BY THE COMMISSION:

BACKGROUND

Southern States Utilities, Inc., '(SSUI) Deltona Utilities, Inc. (DUI) and United Florida Utilities Corporation (UFU), herein after also referred to as "utility", are Class A utilities with many different systems located across the State of Florida. All three utilities are wholly-owned subsidiaries of the Topeka Group, Inc. (Topeka)

As of December 31, 1989, all of the utility systems under this rate increase application had 11,976 water customers and 6,917 wastewater customers. The combined water systems had actual operating revenues of \$1,166,547 and a net operating income of \$99,871 for the year ended December 31, 1989. The wastewater systems had actual operating revenues of \$2,518,745 and a net operating income of \$319,967 for the same period.

On July 13, 1990, the utility filed its minimum filing requirements (MFRs) for a rate increase which were determined to be deficient. On September 28, 1990, the utility refiled the MFRs which were accepted as complete and that date was established as the official date of filing. On October 15, 1990, the utility filed an amended application for increased rates which reflected the changes made in the MFRs on September 28, 1990. October 15, 1990 was established as the official date of filing. The test year for final rates is the projected twelve-month period ended December 31, 1991, based on the historical year ended December 31, 1989. The utility requested that this case be scheduled for formal hearing and not processed pursuant to the proposed agency action process.

The applicant has requested final water rates designed to generate annual revenues based on four uniform rate structures for the systems included in this application which have like types of treatment. It further states that the final rates requested would be sufficient to recover an 11.93 percent rate of return on rate base.

The Commission held four service hearings in this case. The first service hearing, which covered Marion and Citrus counties, was held on October 25, 1990, in Ocala, Florida. Fourteen customers presented testimony. The second service hearing, which covered Collier, Lee and Charlotte Counties, was held on November 27, 1990, in Naples, Florida. Seven customers testified. The third service hearing, which covered Washington County, was held on December 3, 1990, in Sunny Hills, Florida. Twelve customers testified. The last service hearing covered Martin County and was held in Stuart, Florida, on January 3, 1991. At this hearing sixteen customers testified.

The Commission acknowledged the intervention of the Office of Public Counsel (OPC) by Order No. 23496, issued on September 17, 1990. On November 26, 1990, the Commission issued Order No. 23803 granting the intervention of the Cypress and Oak Villages Association.

The utility requested interim water rates, in total designed to generate \$1,667,066. These revenues exceeded test year revenues by \$500,519, for an increase of 42.91 percent. The utility requested interim wastewater rates designed to generate annual revenues of \$3,510,010. These requested revenues exceeded test year revenues by \$991,265, for a 39.36 percent increase. The utility stated that this increase in revenue would be sufficient to recover operating expenses and a reasonable return on its rate base. The interim test period is the twelve-months ended December 31, 1989.

On December 11, 1990, the Commission issued Order No. 23860 which suspended the proposed rates and granted interim rates. The Commission granted a county-wide uniform percentage increase for both water and wastewater. The interim increase is subject to refund and secured by corporate undertakings filed by SSUI, DUI and UFU.

The prehearing conference was held on January 22, 1991, in Tallahassee, Florida. The hearing, also in Tallahassee, was held February 11-16, 1991. Briefs from all parties were filed with the Division of Records and Reporting on April 1, 1991.

During the hearing in this case, OPC made two motions to dismiss. The first was based on OPC's view that the MFRs were incomplete and thus the utility did not carry its burden of proof. The second was based on OPC's belief that the customers have been

denied due process because of the additional information allowed in after the filing. The utility responded by stating that the argument goes to the weight of the evidence and that will be determined by the Commission in its final order.

Upon consideration, the Commission denied both motions at the conclusion of the hearing on the basis that it believed there was an adequate record upon which to make a decision. The Commission noted that it is not uncommon for companies to have problems with their filings - some to a greater or lesser degree than others and that companies often do not realize what they have asked for. Essentially, the Commission stated it would review the record and determine whether the utility had carried its burden of proof for the increases requested.

FINDINGS OF FACT AND CONCLUSIONS OF LAW

Having heard the evidence presented at hearing and having reviewed the recommendation of staff, as well as the briefs of the parties, we now enter our findings and conclusions.

The burden of proof is upon the utility to show that its present rates are unreasonable, fail to compensate the utility for its prudently incurred expenses and fail to produce a reasonable return on its investment. <u>South Florida Natural Gas v. Florida</u> <u>Public Service Commission</u>, 534 So.2d 695 (Fla. 1988); <u>Florida Power</u> <u>Corporation v. Cresse</u>, 413 So.2d 1187 (Fla. 1982). In this proceeding, our review of the record before us leads us to unanimously conclude that the utility did not carry its burden of proof to show by a preponderance of the evidence that, it was entitled to a change in its rates. We have jurisdiction to determine the water and wastewater rates of SSUI, DUI, and UFU pursuant to Sections 367.011 and 367.081, Florida Statutes.

The utility filed its case seeking increases for 34 of its systems located in 7 counties. It included those systems which were allegedly earning below their authorized rates of return. The utility was also seeking to have uniform rates applied to these systems.

When analyzing the record, we repeatedly were confronted with fundamental flaws in the utility's case. An example is rate base. The utility could not justify its expenditure for land purchased from Deltona Corporation pursuant to the 1989 purchase by Topeka,

the utility's parent. Supporting detail was lacking regarding original cost or fair market value. The utility is required to keep its books in accordance with the Uniform System of Accounts published by NARUC. Plant received as part of an acquired operating unit should be recorded at the cost to the person who first devoted it to public service. The recorded amount for subsequently purchased plant should be the cost incurred by the utility.

As part of the Topeka purchase of the DUÍ and UFU utility systems, Topeka acquired existing plant sites and sites for future utility use. The record shows that some of the land described as future use property had been in utility service when acquired. The utility's witness did not know whether the asking price for existing sites conformed with the original cost when first devoted to utility service. He did not know whether Topeka performed any tests to assure itself that the asking price equalled the cost incurred by the Deltona Corporation. He testified that appraisals would be performed later to establish the market value of the acquired properties in three of the counties in this case. Appraisals were also being performed to determine the value of land when it was first utilized for service. He admitted that a larger purchase price would increase the credit acquisition adjustment relating to the purchase. Thus, we could not include the reported land costs of approximately \$3,963,400 if we were to determine rate base.

Most troubling perhaps, was that the utility's construction budget showed the errors in the utility's own projections. Exhibit 39 compared the 1990 budgeted amounts for construction projects by county as shown in the MFRs with the actual year-end expenditures. It also compared the 1991 amounts in the MFRs with the current revised 1991 budgets. For both years, the figures shown in the MFRs were incorrect by over 50 percent. The 1990 MFR forecasted total was \$15,821,560; the 1990 actual expenditures were \$7,285,083. The 1991 MFR forecasted total was \$10,647,177; the MFR incorrect provided the state total was \$10,647,177; the state the planned improvements were either not made, delayed beyond the test year, or more or less expensive than projected.

Rate base is to ratemaking what a foundation is to a house since it is the basis upon which the utility's earnings are determined. If the utility's own forecasts are so severely in error, it casts a deep shadow on the credibility of the data

submitted and makes it very difficult to build a house that will remain standing.

The utility's operating budgetary process was also problematic. While called "zero-based budgeting," the utility's presentation indicated to us that its budgeting process was more of a "continuation budget" than zero-based budgeting as that term is commonly understood. In reviewing the budgetary process, one would have to accept that the 1989 expenditures would stand the test of However, there is a difference to this Commission scrutiny. between expenditures stated and expenditures justified. The South Florida Natural Gas and Florida Power Corporation cases previously cited support the concept that stating what an expenditure is, is not the same as justifying why that expenditure was made so that we can determine its reasonableness. Producing cost data does not in and of itself show the reasonableness of that data. The record does not contain justification for the underlying 1989 data upon which the 1990 and 1991 projections were based.

The utility's allocation method used for administrative and general (A & G) expenses of the Apopka office (overhead) was also troublesome. Using the utility's method results in the Sunny Hills system, which has approximately 400 water and 180 wastewater customers, being allocated approximately \$36,000 in A & G expenses. This not only raises the question of the correctness of the allocation method, but whether such allocations are in the public interest. Out of over \$5 million in A & G expenses for the utility as a whole, approximately \$2 million is allocated to the 34 systems in this case. The utility has not justified this level of expense or allocation in our view.

While the utility is seeking to apply uniform rates to these systems, its approach to the case was far from uniform. The record reflects that the utility's consultants used varying methods of treatment on numerous issues. This resulted in inconsistent treatment of the same issue. Further, for Citrus County, the utility did not include all the systems in this county, yet it wanted uniform rates applied to that county. This would leave the other systems in that county with different rates. When asked why the other systems in that county were excluded from the filing, the witness indicated time constraints and the earnings level of the excluded systems as the reasons. Yet we note that the utility had time to refile its sizeable MFRs because the first filing contained so may deficiencies.

(6

Looking at the record as a whole, we find the utility's data to be so flawed and incomplete as to have little probative value. Because we cannot depend on the base year data, we cannot in good faith make adjustments to try to save the utility's case. We know of no way to alternatively group these systems or design a rate structure based on persuasive data in the record. The rates requested by the utility were based on the investment and expenses shown in the MFRs and that data has been shown to be suspect. If we were to utilize an alternative 1989 test year and design system - specific rates, we would be basing that design on underlying data that was not justified during the course of the hearing. At various times during the six days of the hearing, we expressed our frustration with the quality of the evidence being presented. We allowed utility witnesses to return to the stand to present additional evidence. However, the utility was unable, in our view of the record, to present credible evidence that could withstand our scrutiny. Since it is not our responsibility to make the utility's case, we will not do so.

Accordingly, based on the evidence before us, we conclude that the utility has not carried its burden of proof of entitlement to increased rates. Its application is hereby denied in its entirety. The interim rates granted in Order No. 23860, must therefore be refunded with interest, pursuant to Rule 25-30.360, Florida Administrative Code.

Based on the foregoing, it is

ORDERED by the Florida Public Service Commission that the application of Southern States Utilities, Inc. Deltona Utilitics, Inc. and United Florida Utilities Corporation for increased rates and charges for 34 systems in Citrus, Charlotte/Lee, Collier, Marion, Martin and Washington Counties, is hereby denied. It is further

ORDERED that the interim water and wastewater rates authorized in Order No. 23860 shall be refunded, with interest, pursuant to Rule 25-30.360, Florida Administrative Code. It is further

ORDERED that the utilities shall file revised tariffs reflecting the rates that were in effect prior to the issuance of Order No. 23860. It is further

ORDERED that this docket shall be closed upon the verification of the completion of the refund.

By ORDER of the Florida Public Service Commission, this <u>26th</u> day of <u>JUNE</u>, <u>1991</u>.

STEVE TRIBBLE, Director Division of Records and Reporting

(SEAL)

NSD

NOTICE OF FURTHER PROCEEDINGS OR JUDICIAL REVIEW

The Florida Public Service Commission is required by Section 120.59(4), Florida Statutes, to notify parties of any administrative hearing or judicial review of Commission orders that is available under Sections 120.57 or 120.68, Florida Statutes, as well as the procedures and time limits that apply. This notice should not be construed to mean all requests for an administrative hearing or judicial review will be granted or result in the relief sought.

Any party adversely affected by the Commission's final action in this matter may request: 1) reconsideration of the decision by filing a motion for reconsideration with the Director, Division of Records and Reporting within fifteen (15) days of the issuance of this order in the form prescribed by Rule 25-22.060, Florida Administrative Code; or 2) judicial review by the Florida Supreme Court in the case of an electric, gas or telephone utility or the First District Court of Appeal in the case of a water or sewer utility by filing a notice of appeal with the Director, Division of Records and Reporting and filing a copy of the notice of appeal and the filing fee with the appropriate court. This filing must be completed within thirty (30) days after the issuance of this order, pursuant to Rule 9.110, Florida Rules of Appellate Procedure. The notice of appeal must be in the form specified in Rule 9.900 (a), Florida Rules of Appellate Procedure.

WORKSHEETS

PIGE 1 or 3

554 ANSWER TO PSC INTERROGATORY 27 R-A -CITRUSCO, SYSTEMS. DOCHET NO. 930880-WS.

SCHEDULE OF FIVE-YEAR CONSTRUCTION PROJECTS BY SYSTEM - WATER & - SEWER

DI MIT ADDITIONO AND ENDING DAI ANOED

	PLT#	PROJECT DESCRIPTION		FLANT AUDITIONS AND ENDING BALANCES										
PLANT NAME			ALLOCATION FACTOR	1993 Additions	1993 End Bal	1994 Additions	1994 End Bat	1995 Additions	1995 End Bal.	1996 Additions	1996 End Bal	1997 Additions	1997 End Bal	
Apache Shores	990 V	Upgrade Water Lines-Distribution System Auxiliary Generator Addritional Well			0) 0 0 0		0	0	0 0 0	10,000	10,000	
		Allocated General & Miscellaneous Plants	0.107291%	5,526	5,526	5,423	10,949	5,993	16,943	6,767	23,710	7,374	31,083	
			·	5,526	5.526	5.423	10,949	5,993	16,943	6,767	23,710	17,374	41,083	
Apache Shores	990 5	Replace & Upgrade Collection System Allocated General & Miscellaneous Plants	0 073241%	3,772	0 3,772	3,702	0 7,474	4,091	0 11,566	15,000 4,619	15,000 16,165	15 000 5 034	30,000 21,219	
			_	3,772	3,772	3,702	7,474	4,091	11,566	19,619	31,185	20.034	51,219	
Crirus Springs	906 14/	Generator / Well #3 Interconnect with Pine Ridge Well #2 Addition 1 & MCD Storme Text ALS Rume Building			0 0 0		0 0 0	70,000	0 70,000 0 0	35,000 70,000 20,000	35.000 140,000 20.000 0	550 000	35,000 140,000 20,000 550,000	
		Allocated General & Miscellaneous Plants	1.123668%	57 874	57.874	56,799	114,673	62,767	177,441	70,871	248,311	77,225	325,536	
			_	57,874	57,874	56,799	114,673	132,767	247,441	195,871	443,311	627.225	1,070,536	
Citrus Springs	90 S	6 Upgrade Lift Station 2/A WWTP Upgrade Allocated General & Miscellaneous Plants	0 437517%	22,534	0 0 22,534	35,000 22,116	35,000 0 44,650	60,000 24,439	35,000 60,000 69,089	60,000 27,595	35,000 120,000 96,684	60,000 30,069	35,000 180,000 126,753	
				22,534	22,534	57,116	79,650	84,439	164,089	87,595	251,684	90,069	341,753	
Crystal River کار در حسال دی رؤم	984 127	WTP Improvements Distribution System Improv Anvestigation Alterated General & Miscellaneous Plants	0 044330%	45,369 2,283	45,369 0 2,283	2,241	45,369 0 4,524	0 2,476	45,369 0 7,000	0 2,796	45,369 0 9,796	0 3 047	45,369 0 12 843	
				47.652	47,652	2.241	49,893	2.476	52,369	2,796	55,165	3 047	58,212	
Golden Terrace	992 V	Abandon WTP #1 & WTP #2 Interconnect with City of Inverness Allocated General & Maccellandoux Plants	0 066174%	32,694 3,408	0 32,694 3,406	0 3,345	0 32,694 6,753	<u>3.696</u>	0 32,694 10,450	4,174	0 32,694 14,623	4 548	0 32,694 19,171	
	-	ARULANU URRAN & MISCENSICUUS I MITO		36,102	36,102	3,345	39,447	3 696	43,144	4,174	47,317	4 548	51,865	
Gospel Island	986	Allowated General & Miccellanous Plants	0 005782%	298	0 298	. 292	0 59 0	323	0 913	365	0 1,278	397	0 1,675	
	4			298		292	590	323	913	365	1,278	397	1,675	

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SCHEDULE OF FIVE-YEAR CONSTRUCTION PROJECTS BY SYSTEM - WATER & SEWER

<u>SSU ANSWER TO PSC INTERROGATORY</u> 27R-A - CITRUS CO. SYSTEMS DOCKET NO 930880-45

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							PLANT AD	DITIONS ANE	D ENDING BAL	ANCES			
PLANT NAME	PLT	PROJECT DESCRIPTION	ALLOCATION FACTOR	1993 Additions	1993 End Bal.	1994 Additions	1994 End Bal	1995 Additions	1995 End Bal.	1996 Additions	1996 End Bal	1597 Additions	1997 End Bal
Oak Forest	993 V/	Water Distribution System WTP Upgrade & Aux Power Allocated General & Miscollaneous Plants	0 089302%	4,599	0 0 4,599	30,000 4,514	0 30,000 9,114	5.000 30.000 4.988	5,000 60,000 14,102	5,632	5,000 60,000 19,734	5,000 6,137	10,000 60,000 25,872
				4,599	4 599	34,514	39,114	39,988	79,102	5,632	84,734	11,137	95,872
Pine Ridge Utilitie	907 42/	Padrill Well #3.6 Interconnect with Well # Hydraulic Analysis/Loop System Hydrauts Well #2.7 Auxiliary Generator Additional Well		15 164	0 0 16.164 0 0	125,000	0 0 16,164 0 125,000	60,000 40,000 125,000	0 60,000 16,164 40,000 250,000	100,000	100 000 120 000 16 164 40 070 250 000	10 000	110,000 120,000 16,164 40,000 250,000
		Allocated General & Miscellaneous Plants	0 30/09/%	15 617	15,817	15,523	31,340	17,154	40,494	19,309	67,003	21,100	
				31,981	31,981	140,523	172,504	242,154	414,658	179,369	594,027	31,106	625,133
Point O' Woods	987	WTP Iron Filters Allocated General & Miscellaneous Plants	0 221650%	11,090 11,416	11,080 11,415	11,204	11,080 22,620	12,381	11,090 35,001	13,980	11,080 48,981	15,233	64,214
	W			22 496	22,496	11,204	33,700	12,381	46,081	13,980	60,061	15,233	75,294
Point O'woods	987 C	Allocated General & Miscellaneous Plants	0 082878%	4 269	0 4,269	4,189	0 0,458	4,629	0 13,087	5,227	. 0 18,315	5,696	с Эф 24,010
	2			4,269	4,269	4,189	8,458	4,629	13,087	5.227	10,315	5 696	24,010
Rolling Green	985 W	Water Main Upgrade Allocated General & Miscellaneous Plants	0.051397%	2.647	0 2,647	2,598	0 5,245	2 871	0 8,115	0 3,242	0 11,358	0 0,532	0 14,890
			-	2,647	2 6 4 7	2,598	5,245	2 871	8,115	3,242	11,358	3,532	14,890
Rosemont	988	Water Main Upgrade Allocated General & Miscellaneous Plants	0 029553%	1,522	0 1,522	1,494	0 3,016	1,651	0 4,667	0 1,864	0 6,531	0 2,031	0 8,562
	V 4			1,522	1,522	1,494	3,015	1.651	4,667	1,964	6,531	2,031	8,562
Sugar Mill Woods	989	0 5 MGD GST		136,635	136,635 0	500,000	636,635 0		636,635 0	550,000	636,635 550,000	550,000	636,635 1,100,000 15,000
	₩- -	1 MG Ground Storage 1 am		2,590	0 2,590 0	15,000 3,000 125,000	15,000 5,590 125,000	3,000 125,000	15,000 8,590 250,000	3,000	11,590 250,000 278,836	3,000 85,718	14,590 250,000 365,554
		Alocated General & Miscellaneous Plants	1 261797%	64,988	64,988	63,781	128,770	70,423	199,253	19,303	£10,030	600,F10	3 361 770
					204 212	706 781	010 005	199.483	1 109 478	532,563	1,/42,061	023 / 10	2,301,773

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554 ANSWER TO PSC INTERROGATORY 27 R-A - CITRUS CO SYSTEMS. DRC.KET NO. 930880-W9.

SCHEDULE OF FIVE-YEAR CONSTRUCTION PROJECTS BY SYSTEM - WATER & SEWER • Plant Additions and Ending Balances •

PLANT ADDITIONS AND ENDING BALANCES

PLANT NAME	PLT#	PROJECT DESCRIPTION	ALLOCATION FACTOR	1993 Additions	1993 End Bal	1994 Additions	1994 End Bal	1995 Additions	1995 End Bal.	1996 Additions	1996 End Bal	1997 Additions	1997 End Bal
Sugar Mill Woods	989 5	Collection System (Air Release) New Lift Stations (3) Pond Cleaning 1 & I Investigation Left Station Upgrades 0 \$ MGD WWTP Expansion Allocated General & Miscellaneous Plants	1 212970%	15,543 102,815 62,473 180,831	0 15,543 0 0 102,815 62,473 180,831	50,000 10,000 150,000 61,313 271,313	0 65,543 0 0 10,000 252,815 123,787 452,145	5.000 16.000 0 20.000 500.000 67,756 608,756	5,000 B1,543 0 30,000 752,815 191,542 1,060,900	32,000 0 15,000 1,200,000 76,503 1,323,503	5,000 113,543 0 0 45,000 <u>1,952,815</u> 268,046 2,384,404	0 10 000 <u>83 352</u> 93,362	5,000 113,543 0 0 55,000 <u>1,952,815</u> 351,408 2,477,766

NOTE: DRIGUAL 2718- & HAD ALL WRITER & SEWER SYSTEMA LISTED ALMARBETICALLY. THE CITANS CO. SYSTEMS WERE CUT OUT & REASSEMBLED FOR THIS EVAIBIT. BLH 7/17/94



SUMMARY OF FIVE-YEAR CONSTRUCTION PROJECTS BY SYSTEM - WATER

DOCKET 930380-109

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				PLANT ADDIT	IONS				PLANT ENDIN	IG BALANCES	·	
PLANT NAME	PLT#	1993 Additions	1994 Additions	1995 Additions	1996 Additions	1997 Additions	Total	1993 End. Bal.	1994 End. Bal.	1995 End. Bal.	1996 End. Bat.	1997 End. Bal.
FPSC UNIFORM RA	TE SYSTE	MS:			<u> </u>			<u> </u>		<u> </u>	··· <u>··</u>	
Amelia Island Anacha Shores	1518	43.050	382,250	46,690	212,718	57,444	742,151	43,050	425,300	471,990	684,707	742,151
Apole Valley	222		Un 500	- 100,550	0,107	17,379 *** 100 500	41,000	3,320	10,949	10,943	23,710	41,083
Ravitake Estates	784	2 151	2 111	133,000	90.171	130,393	012,524	103,363	243,954	3/7,760	475,931	612,524
Beacon Hills	886	607.897	1 440 216	00 606	112 567	122,670	2 303 035	2,101 607.907	4,202	0,094	16,/26	19,598
Beecher's Point	472	75 422	1 331	1 471	1 661	1 810	2,000,000 91,606	75,412	2,040,114	2,147,009	2,200,370	2,383,035
Burnt Store	2202	207 015	1 306 885	7 608	8 590	1.810	1 530 450	207.015	1 612 000	1 621 609	1 520 009	81,690
Carlton Village	555	9.052	138,800	4,199	4 741	5 166	161 958	9.052	147 B52	152 051	1,55,702	1,009,409
Chuluota	335	22,170	121,758	79,045	122,149	94,583	439 705	22 170	143 929	222 973	345 122	430 705
Citrus Park	1117	13,104	12,860	14.211	31,046	32 485	103 706	13 104	25 964	40 175	71 221	103 706
Citrus Springs	905	57,874	56,799	132,767	195,871	627,225	1.070.536	57.874	114 673	247 441	443 311	1 070 536
Crystal River	984	47,652	2,241	2,476	2,796	3,047	58,212	47 652	49,893	52.369	55,165	58 212
Daetwyler Shores	105	4,169	4,092	4,522	5,106	5,563	23,452	4,169	8,261	12,783	17 889	23 452
Deliona Lakes	1806	1,698,890	1,752,510	2,561,760	1,314,840	1,395,667	8 723,667	1,698,890	3,451,400	6.013,160	7.328.000	B.723.667
Dol Ray Manor	336	28,544	1,916	2,117	2,391	2,605	37,574	28,544	30,460	32,578	34,968	37.574
Uruid Hills	334	44,202	103,216	9,080	10,252	11,171	177,920	44,202	147,418	156,498	166,749	177 920
East Lake Harris	557	5,691	125,586	6,173	6,970	7,594	152,014	5,691	131,277	137,450	144,419	152.014
Fem Park	324	6,122	6,008	56,639	7,496	8,168	84,434	6,122	12,130	68,769	76,265	84,434
Fem Terrace	552	26,395	129,157	129,594	5,187	5,652	295.984	26,395	155,552	285,146	290,333	295,984
Fisherman's Haven	673	78,195	5,066	35,598	6,321	6,888	132,069	78,195	83,261	118,860	125,181	132,069
Foundains	(12	397	390	431	486	50,530	52.234	397	787	1,217	1,704	52,234
Fox num	0/9	3,177	3,118	3,445	3,890	4,239	17,868	3,177	5,294	9,739	13,629	17,868
Coldon Torraco	000	090	J,102	10,734	851	927	16,409	695	3,877	14,631	15,481	16,409
Goenal Inland	992		3,345	3,636	4,1/4	4,548	51,865	35,102	39,447	43,144	47,317	51,865
Grand Terrace	575	- 3 474 -		323	305	39/	1,6/5	298	590	913	1,278	1,675
Harmony Homos	326	2 151	2 111	3,700	9,200	4,030	139,343	3,4/4	120,884	130,653	134,907	139,543
Hermits Cove	438	30 035	5 791	6 399	2,034	2,0/0	67.177	2,151	4,262	6,594	9,228	12,098
Hobby Hills	558	5 965	38 312	3 66 1	A 133	4 504	56 575	39,930	40,/1/	32,103	59,317	67,177
Holiday Haven	573	3,805	3,735	7 127	7 660	R 07R	30,405	3,505	7 540	47,930	22.071	20,275
Holiday Height	121	23 914	1 721	1 902	2 149	2 340	32.025	23 61 4	25 6 25	27 6 27	22,327	30,403
Imperial Terrace	570	9,595	80,391	8,721	9 847	10 729	119 283	0.505	AQ QR6	00 707	29,000	32,023
Intercession City	780	48,328	128,573	59,474	10.697	11.657	258,730	48.328	176 901	236 375	247 073	258 730
Interlachen Lakes	470	7,247	7.112	7.859	8 874	9.670	40 762	7 247	14 359	22.218	31 092	40 762
Jungle Den	1802	3,838	3,767	4,163	8,700	5,122	25 591	3 838	7 606	11 76B	20 469	25 591
Keystone Heights	1094	142,366	82,151	85,529	40,116	43,712	393,873	142 366	224 516	310 045	350 161	393 873
Kingswood	1701	2,151	2,111	2,333	2,634	2,870	12,098	2,151	4 262	6 594	9 2 2 8	12 098
Lake Ajay	773	15,384	1,396	1,543	1,742	1,899	21,964	15 384	16 780	18 323	20.066	21 964
Lake Brantley	325	2,415	32,371	2,620	2,958	3,223	43,587	2,416	34,786	37.406	40,364	43.587
Lake Conway Park	104	2,879	2.825	3,122	3,525	3,841	16,193	2,879	5,704	8,826	12.352	16,193
Lake Harriet	323	9,563	9,385	10,372	11,711	37,760	78,791	9,563	18,948	29,320	41,030	78,791
Lakeview Villas	1054	463	455	502	567	618	2,606	463	918	1,420	1,988	2,606
Leitani Heights	675	49,675	42,795	14,140	15,965	17,397	139,972	49,675	92,471	106,610	122,576	139,972
Faiznis F9K62	2401	22,470	7,924	8,757	9,887	10,774	59,811	22,470	30,394	39,150	49,038	59,811
Marco Shores	2602	11,955	85,996	9,941	11,224	12.231	131,346	11,955	97,951	107,891	119,116	131,346
manon Uaks	1106	96,895	93,811	231,987	368,088	251,793	1.042.573	96,895	190,706	422.692	790,780	1.042.573

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KTERROGATOR " APPENDIX

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SUMMARY OF FIVE-YEAR CONSTRUCTION PROJECTS BY SYSTEM - WATER

				PLANT ADDIT	IONS				PLANT ENDIN	IG BALANCES		
PLANT NAME	PLT#	1993 Additions	1994 Additions	1995 Additions	1996 Additions	1997 Additions	Total	1993 End Bal	1994 End Bal	1995 End. Bal.	1996 End. Bal.	1997 End. Bal.
Meredith Manor	330	22,402	71,986	134,295	77,433	79.892	386.008	22.402	94,388	228,683	306,116	386,008
Morningview	562	40,717	1,104	1.220	1,378	1.501	45,920	40,717	41,821	43,041	44,419	45,920
Oak Forest	993	4,599	34,514	39,988	5,632	11,137	95.872	4,599	39,114	79,102	84,734	95,872
Uakwood	1702	11,169	6,625	7,321	8,266	9,007	42.389	11,169	17,794	25,115	33,382	42,389
Patisades Park	579	331	325	359	405	100,442	101.861	331	656	1.015	1,420	101,861
Palm Port	440	34,593	3,150	3,481	3,931	4,283	49,437	34,593	37,743	41,224	45,154	49,437
Palm Terrace	1429	39,575	45,840	44,922	58,463	54,808	244,608	39,575	86.416	131,337	189,800	244,608
Palms Mobile Home P	559	1,985	1,949	2,153	2,431	2,649	11,168	1,985	3,934	6,087	8,518	11,168
Park Manor	444	993	974	1.077	1,216	1,325	5,584	993	1,967	3,044	4,259	5,584
Picciola Island	564	9,516	4,254	4,701	5,308	5,784	29,564	9.516	13,770	18,471	23,780	29,564
Pine Hidge Estates	782	52,548	5,618	61,209	7,010	7,639	134,023	52,548	58,166	119,374	126,384	134,023
Pine Ridge Utilities	907	31,981	140,523	242,154	179,369	31,106	625,133	31,981	172,504	414,658	594,027	625,133
Piney Woods	553	13,462	5,586	36,173	6,970	7,594	69,785	13,462	19,048	55,221	62,190	69,785
Point O' Woods	987	22,496	11,204	12,381	13,980	15,233	75,294	22,496	33,700	46,081	60,061	75,294
Pomona Park	443	42,701	80,358	5,921	6,686	7,285	142,952	42,701	123,059	128,981	135,667	142,952
Postmaster Village	1095	42,403	5,066	5,598	6,321	6,888	66,277	42,403	47,469	53,068	59,389	66,27 7
Quail Ridge	578	430	422	467	527	574	2,420	430	852	1,319	1,846	2,420
River Grove	442	3,574	53,507	78,876	4,376	4,769	145,102	3,574	57,081	135,957	140,333	145,102
River Park	439	11,581	11,366	12,561	14,182	15,454	65,145	11,581	22,948	35,508	49,691	65,145
Rolling Green	985	2,647	2,598	2,871	3.242	3,532	14,890	2.647	5,245	8,116	11,358	14,890
Rosemont	988	1,522	1,494	1,651	1.864	2,031	8,562	1,522	3,016	4,667	6,531 "	8,562
Salt Springs	1115	3,673	8,605	3,984	4,498	4,901	25,660	3,673	12,278	1 6 ,261	20,759	25,660
Samira Villas	1118	66	65	72	81	88	372	66	131	203	284	372
Saratoga Habour	448	1,324	1,299	1,436	1,621	1,766	7,445	1,324	2,623	4,058	5,679	7,445
Silver Lake Estates	574	77,194	205,754	85,313	39,872	43,447	451,581	77,194	282,948	368,261	408,134	451,581
Silver Lake Oaks	473	22,488	909	1,005	1,135	1,236	26,773	22,488	23,397	24,402	25,536	26,773
Skycrest	551	89.075	53,832	4,235	4,781	5,210	157,133	89,075	142,907	147,141	151,923	157,133
Spring Hill	2701	1,163,597	1.309,553	1,855,203	2,184,709	1,615,575	8,128,638	1,163,597	2,473,151	4,328,353	6,513,063	8,128,638
St. John's Highlands	471	2,746	2,695	2,979	3,363	73,665	85.449	2,746	5,442	8,421	11,784	85,449
Stone Mountain	565	232	227	251	284	309	1,303	232	459	710	994	1,303
Sugar Mill	1801	20,251	19,875	21,963	24,799	27,022	113,910	20,251	40,126	62,089	86,888	113,910
Sugar Mill Woods	989	204,213	706,781	198,483	632,583	639,718	2,381.779	204,213	910,995	1,109,478	1,742,061	2,381,779
Sunny Hills	2801	86,855	13,510	17,929	19,857	21,368	159,519	86,855	100,365	118,294	138,151	159,519
Sunshine Parkway	560	7,033	120,292	323	50,365	397	178,410	7,033	127,325	127,648	178,013	178,410
Tropical Park	781	52,051	75,524	44,918	49,989	94,505	316,987	52,051	127,575	172,492	222,481	316,987
University Shores	106	229,524	98,075	258,380	167,373	133,345	886,697	229,524	327,599	585,980	753,353	886,697
Venetian Village	567	40,323	4,319	4,773	5,389	5,872	60.677	40,323	44,642	49,415	54,804	60,677
Welaka	447	3,044	2,988	3,302	3,728	4,062	17,124	3,044	6,032	9,334	13,062	17,124
Western Shores	566	9,59 6	9,418	10,407	11,751	12,805	53,977	9,596	19,014	29,421	41,172	53,977
Westmont	122	4,302	4,222	4,665	5,268	5,740	24,197	4,302	8.523	13,189	18,457	24.197
Windsong	783	3,640	3,572	3,948	4,457	4,857	20,474	3,640	7,212	11,160	15,617	20,474
Woodmere	888	50,145	61,502	140,338	145,545	49,629	447,159	50,145	111,647	251,985	397,530	447,159
Wooten	446	9,566	650	718	810	883	12.627	9,566	10.215	10,933	11,743	12.627
Zephyr Shores	1427	130,761	16,822	18,590	20,990	22.872	210,035	130,761	147,584	166,173	187,163	210,035
Subtotal FPSC Unit	lorm	6,234,546	9,715,233	7,213,260	6,502,353	6 210 355	35 875 748	6 234 546	15 949 779	23 163 039	29 665 392	35 875 748

.

OTHER FPSC SYSTEMS

APPENDIX 272-A PAGE 21 OF 98

SUMMARY OF FIVE-YEAR CONSTRUCTION PROJECTS BY SYSTEM - WATER

				PLANT ADDIT	IONS				PLANT ENDIN	IG BALANCES		
PLANT NAME	PLT#	1993 Additions	1994 Additions	1995 Additions	1996 Additions	1997 Additions	Total	1993 End Bal.	1994 End. Bal,	1995 End. Bal.	1996 End. Bal.	1997 End. Bal.
Enterprise Geneva Lake Est. Keystone Club Estates Lakeside Lehigh	1807 1298 1279 ?? 2901	6,618 2,813 6,046 0 840,169	6,495 2,760 4,611 0 457,789	7,178 3,050 5,096 0 484,876	8,104 3,444 5,754 0 521,654	8,831 3,753 6,270 0 550,493	37,225 15,821 27,777 0 2,854,981	6.618 2.813 6.046 0 840.169	13,113 5,573 10,657 0 1,297,958	20,291 8,623 15,753 0 1,782,834	28,395 12,068 21,507 0 2,304,488	37,225 15,821 27,777 0 2,854,981
Marco Island	2601	1,748,109	955,108	1,549,032	524,728	644,877	5,421,854	1,748,109	2.703.217	4,252,249	4,776,977	5,421,854
Subtotal Other FPSC	2	2,603,754	1,426,764	2,049,232	1,063,685	1,214,224	8,357,659	2,603,754	4,030,518	6,079,750	7.143.435	8.357.659
FUTURE FPSC SYSTE	MS:											
Gibsonia Estates Herschel Heights Lake Gibson Orange Hill Palm Valley Remington Forest Seaboard Sugar Creek Valrico Hills Subtotat Future FPS	215 1902 210 214 2301 2302 1906 212 1901 C	5,526 10,523 308,429 5,592 634,971 1,092 85,537 2,052 11,846 1,065,567	5,423 10,327 25,883 5,488 6,917 1,072 102,949 2,013 11,626 171,699	5,993 19,412 32,602 21,065 7,644 1,184 277,769 2,225 12,848 	6,767 15,886 36,295 21,848 8,631 1,337 289,746 2,512 14,506 	7,374 17,041 39,191 22,462 9,405 1,457 124,138 2,738 15,807 	31,083 73,188 442,399 76,455 667,568 6,142 880,139 11,540 66,634 2,255,149	5,526 10,523 308,429 5,592 634,971 1,092 85,537 2,052 11,846 	10,949 20,850 334,311 11,060 641,888 2,164 188,486 4,065 23,472 	16.943 40.262 366.914 32,145 649,532 3,348 466,255 6,290 36,320 1.618.009	23,710 56,148 403,209 53,994 558,163 4,685 756,001 8,802 50,826 2,015,538	31,083 73,188 442,399 76,455 667,568 6,142 890,139 11,540 66,634 2,255,149
NON-FPSC SYSTEMS	:								1,201,200	1,010,000	2,010,000	2,200,140
Deep Creek Venice Gardens	2201 160X	107,794 1,181,076	391.353 704,979	400,952 358,785	413,985 692,196	424,205 418,393	1,738,289 3,355,429	107 794 1,181 076	499,147 1,886,055	900,099 2,244,841	1, 314,084 2,937,036	1, 738,289 3,355,429
Subtotal Non-FPSC		1,288,870	1,096,332	759,737	1,106,181	842.598	5,093,718	1,288.870	2,385,203	3,144,940	4,251,120	5,093,718
TOTAL ALL WATER SI	rstem	11,192,738	12,410,028	10,402,972	9.069,748	8.506,788	51,582,273	11,192,738	23,602,766	34,005,738	43,075,485	51,502,273

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APPENDIX 27R-1

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				DEPRECIATIO	N EXPENSE			ACCL	IM DEPRECIA	tion ending i	BALANCES	
PLANT NAME	PLT#	1993 Additions	1994 Additions	1995 Additions	1996 Additions	1997 Additions	Total	1993 End Bal	1994 End, Bal	1995 End. Bal.	1996 End. Bal	1997 End. Bal.
FPSC UNIFORM RATI	ESYSTE	MS:										·····
Amelia Island	1518	1,856	20,257	53.655	75,124	82,772	233,664	1,856	22,113	75,768	150,893	233,664
Apache Shores	990	189	562	952	1,602	2,513	5,818	189	751	1,703	3,305	5,818
Apple Valley	332	276	824	1,395	2,033	2,740	7,267	276	1,100	2,495	4,527	7.267
Beacon Hills Booebor's Baint	470	10,589	51,013	136,052	181,675	194,995	585,325	10,589	/1,602	209,654	391,330	586,325
Deecner's Point	4/2	20 5 174	10.005	134	193	202	696	20	105	239	434	696
Chuluota	2202	5,1/4	10,625	5.115	11,863	12,587	51,458	5,174	15,799	27,008	38.871	51,458
Citore Park	1117	000	1 202	2,113	0,044	0,17U 5,607	20,300	1,000	3,337	10,652	17,190	25,366
Citrus Springs	906	1 127	4 331	9,298	15 233	21 450	51 4 39	1 1 27	5458	14 756	20,090	51 430
Deltona Lakes		76 159	90 341	07 150	159 537	267 525	640 721	36 159	116 500	212 669	273 105	640 721
Fisherman's Haven	673	374	1 683	2 884	3 4 4 9	4.076	12 467	374	2 058	4 042	9101	12/67
FI. Central Commerce	340	53	436	823	945	1 081	3 337	53	489	1311	2 256	3 337
Fox Run	679	7.671	12,716	10.256	10.611	11 005	52 260	7 671	20 387	30 643	41 255	52 260
Holiday Haven	573	8,962	21,551	26,947	30.091	31,748	119,299	8,962	30,513	57.459	87.551	119,299
Jungle Den	1802	503	1,194	1,590	2,033	2,524	7,844	503	1,696	3,286	5.320	7,844
Leilani Heights	675	746	6,010	11,225	12,707	14,350	45,038	746	6,756	17,981	30,688	45,038
Leisure Lakes	2401	855	2,083	2,866	3,740	4,710	14,254	855	2,938	5,804	9,544	14,254
Marco Shores	2602	1,797	12,378	21,588	22,494	23,497	81,755	1,797	14,175	35,764	58,258	81,755
Marion Oaks	1106 /	4,990	26,789	56,185	72,209	79,321	239,494	4,990	31,779	87,964	160,173	239,494
Meredith Manor	330	45	133	225	329	443	1,175	45	178	403	732	1,175
Morningview	562	2,127	5,699	7,204	7,334	7,478	29,842	2,127	7,826	15,031	22,365	29,842
Palm Port	440	157	469	793	1,156	1,558	4,134	157	626	1,419	2,575	4,134
Paim Terrace	1429	1,808	5,275	10,297	16,146	20,890	54,418	1,808	7,084	17,382	33,528	54,418
Park Manor Datat Otimonda	444	88	224	323	434	557	1.626	88	312	636	1,069	1,626
Coll Covines	- 4448 -	213	0.0	1,077	1,5/0	2,116	5,613	213	850	1,927	3,497	5,613
Salt Springs	470	1/1	1,444	2,121	4,100	5,811	14.207	177	1,021	4,345	8,455	14,267
South Forty	4/3	40 20	1120	749	1 201	427	1,131	43	171	380	2 200	1,131
Soring Hill	2701	34 483	109 407	197 903	227 500	251 624	4,193 806.006	34 493	143 890	226 262	2,290 554 373	906 006
Sugar Mill	1801	1.308	4 987	8 444	10 755	13 316	38,810	1.308	6 295	14 738	25 401	38 810
Sugar Mill Woods	989	6 41 1	21 722	48 969	105 781	148 691	331 574	5411	28 133	77 102	182 893	331 574
Sunny Hills	2801	268	858	1,524	3 721	7 378	13 770	288	1 146	2 671	6 392	13 770
Sunshine Parkway	560	265	1,971	3,423	3,728	4,035	13,423	265	2,236	5,660	9,388	13,423
University Shores	106	20,452	77,795	136,751	178.329	203 971	617 298	20.452	98,247	234 999	413 328	617 298
Venetian Village	567	139	1,109	2.090	2,411	2,767	8,516	139	1,248	3,338	5,749	8,516
Woodmere	888	2,272	6,265	9,888	13,938	18,425	50,788	2,272	8,537	18,425	32,362	50,788
Zephyr Shores	1427	836	2,609	4,870	7,383	9,965	25,662	836	3,445	8,315	15,697	25,662
Subtotal FPSC Unit	form	154,587	508,893	875,986	1.202.390	1.472.379	4.214.234	154,587	663,479	1,539,465	2,741,855	4,214,234
OTHER FPSC SYSTE	MS:		*								•	
Enterprise	1807	202	602	1,019	1.485	2 001	5 309	202	804	1 822	3 307	5 309
Lehigh	2901	18,744	47.675	69,121	93,090	119,653	348,283	18,744	66,419	135,540	228,630	348,283
Marco Island	2601	12,651	46,724	77,808	91,325	99.377	327 885	12.651	59.375	137 183	228,508	327,885
Tropical Isle	2101	285	998	3,820	6,560	7.288	18 951	285	1.283	5,103	11.663	18,951

SUMMARY OF FIVE-YEAR CONSTRUCTION PROJECTS BY SYSTEM (DEPRECIATION EXPENSE AND ACCUMULATED DEPRECIATION) - SEWER

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APPENDIX_

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05 Apr 94 Pan 1

				DEPRECIATIO	ON EXPENSE			ACC	UM. DEPRECIA	TION ENDING	BALANCES	
PLANT NAME	PLT#	1993 Additions	1994 Additions	1995 Additions	1996 Additions	1997 Additions	Total	1993 End Bal	1994 End Bal	1995 End. Bal.	1996 End. Bal.	1997 End. Bal.
Subtotal Other Fl	PSC	31,681	95,999	151,768	192,460	228,320	700,427	31,881	127,881	279,648	472,108	700,427
FUTURE FPSC SYS	STEMS:											
Lake Gibson Seaboard Valrico Hills	210 1906 1901	442 31,659 577	1,317 67,507 1,722	3,202 76,158 5,414	5,194 85,660 9,248	7,158 96,189 10,725	17,313 357,173 27,687	442 31,659 577	1,759 99,167 2,299	4,961 175,325 7,713	10,155 260,985 16,961	17,313 357,173 27,687
Subtolal Future F	PSC	32.679	70,546	84,775	100,102	114,072	402,173	32.679	103,225	187,999	288,101	402,173
NON-FPSC SYSTE	MS:											
Deep Creek Venice Gardens	2201 160X	6,284 42,942	17,797 100,704	28,742 130,874	40,827 163,195	54,076 198,412	1 47,72 6 636,127	6.284 42.942	24,081 143,546	52,824 274,520	93,651 437,715	1 47,72 6 636,127
Subiotal Non-FP	sc	49,226	118,501	159,616	204.022	252,488	783,853	49,226	167,727	327,343	531,365	783,853
TOTAL ALL SEWER	RSYSTEM	268,372	793,939	1.272,144	1.698.974	2.067,258	6,100.687	268.372	1,062,311	2,334,455	4,033,429	6,100,687

SUMMARY OF FIVE-YEAR CONSTRUCTION PROJECTS BY SYSTEM (DEPRECIATION EXPENSE AND ACCUMULATED DEPRECIATION) - SEWER

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05-Apr 94 Page 2 ・汀)

AEMORANDUM

DATE

Bert Phillips Donnie Crandell Chuck Wood Karla Teasley Roula Tsoukaras. Woody Hendrisks John Losch PrisciIla Wampler

January 7, 1991

Dick Ausmao Forrest Ludesa Charles Sweett Randi Kaplah Rafael Tertero Joe Mack Robert Regalaco Aaron Perlowich

لتناحات

Chris Carr

SUBJECT :

FROM:

1992 to 1995 Capital Budget

Capital Budget. Amounts marked with an asteriation Capital Budget. Amounts marked with an asteriation Capital Budget. Amounts marked with a nonincrease. Amounts marked with a pound sign (finance) increase. Amounts marked with a pound sign (finance) increase. Sumanticipated projects and do not include a St increase. This proposed budget does not include any cartyover from the current 1991 budget.

Much credit for the compilation of this report goes to loo hack and John Losch for the tremendous amount of effort the imade to order to get this report done in the short time allotted.

Flease let me know if there are any questions of comments

Dhris Barr Capital Projects Analyst (II)

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FTEFNONE D:1225F11E5500042045 PEN--C.COM

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BAZY PALA TEARACE	1	BUTP INPROPENETES	20,810		5,000		1,126	D. ML	3,124 ;	158	-0 111	23	NETERTING, ØTGEBVEN CPHOELBUY, ØVSC
1423 POLIN DERRICE	ų	NU UNERGYEREDTS	JU, NO		5,009				;			1	REFLACE ANDF, JEN COMPHESSAN, DESC
LSDE HESSAR COURTY OFFICE													arusa budan suna dina) kedalahi salahtar ataisin miss
ISTO DRELEA ISLAND	. 1	BEP ENDROYENEATS		<u>xo`ana</u>), OM		i 1,113 I	10.750	1,494	140	1.671	r,urp ;	TERRE REDRU BARE, 6431, ACTORNO, CACOREME SISTEM, RESE
JOST SURACES COURTS OFFICE 1601 TENDOF COURTS OFFICE	t		13. ent	25.000			\$ 299	5 #25	1.81	4.761	1.57	1.751	alse inpresentation -
1692 HENICE SANDERS & M		AIP JUPROYLIERIS ADD HE SPC PURPS	199.000										NI SYC PSUPS
1700 BREVARE CONVER OFFICE	•								1				
ITER STRESSOR HAND							- 45	8.8K	- 65 }			1	
\$703 BEL9032						-	200	1.11	- 14			i	

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DOCKET NO. 930880-WS INVESTIGATION INTO APPROPRIATE RATE STRUCTURE FOR SSU

- . •

LATE FILED HEARING EXHIBIT NO.32

TITLE

Five Year Capital Budget Plans for Previous Two Years (1991 and 1992)

 \mathbf{x}_{i}

SOUTHERN STATES UTILITIES, INC. DOCKET NO. 930880-WS INVESTIGATION INTO APPROPRIATE RATE STRUCTURE FOR SSU LATE FILED HEARING EXHIBIT NO. 32

Question:

۹.

Five Year Capital Budget Plans for Previous Two Years (1991 and 1992)

Response:

Attached are the summary of capital budget plans for 1991 and 1992.

PROJECTED CAPITAL IMPROVEMENTS

1992 - 1997

33,914,914 31,449,486 26,465,397 19,722,612 18,186,836 14,297,579 11,226,759

PRELOF2

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						RE C						1885	1996	1887
LIN	REG	PLANT	T NAME	TTP	DBP	8 T :	DESCRIPTION	PRIOR YR	1992	7992	1974	1995	1990	
		ADACHE SI	HOPES	W	B	R	UP GRADE BUILDING, ADD CHLORINE			30,000				
327		APACHE SI	HORES	W	8	G	UPGRADE WATER LINES - DISTRIBUT					10,000		
320		APACHE SI	HORES	s	В	G	WASTEWATER TREATMENT PLANT UPGR	75,727	11,643	· · · · · · · · · · · · · · · · · · ·				
323		ATTONS C	DUNTE OFF	GP	0	0	AIR EXCHANGER/BLOWER-HARNESS		1,100					
330		CITKUS C	OUNTY OFF	GP		R	CHLOR INATORS-EJECTORS		0	4,740				
331	<u> </u>	CITRUS C	OUNTY OFF		ō	R	CHLORINE CTLINDER REPAIR KITS			1,260				
332		CTTPUS S	PRINGS		B	G	1.0 MGD STORAGE TANK/H. SERVICE						550,000	550,000
133		CITRUS S	PRINCS	<u> </u>		ō	AFRATOR REPAIR (CHANGE TO FLOATI					35,000		
114	<u> </u>	CTINUS S	PRINGS	*	0		CHLORINATORS - EJECTORS			4,740				
112		CITORS S	PRINGS		10	R	CHLORINE ALARM			700				
110			PRINCS	\$	Ō	0	CLARIFIER REPAIR		I		8,000			
337	+		DO THES	W		1 a	GENERATOR/WELL #3			35,000		_		
1330			TRINGS			† G	INTERCONNECT CITRUS SPRINGS/PIN					125,000		
1339	<u> </u>		PP TNGS				MAIN LINE EXTENSIONS			200,000	200,000	200,000	200,000	200,000
1340			PRINCS				MATNLINE EXTENSIONS			100,000	100,000	100,000	100,000	100,000
341	┼┈		PRINGS	w			NEW WELL					250,000		
342	+		TRINGS				ITERADE LIFT STATION 2/A	1				25,000		
1343	<u> "</u>	CTIRUS S	PRINCS				WELL #2 ADDITION			20,000				
1344			PRINCS	1			WWTP UPGRADE INCLUDING PAINT	11		60,000	60,000	60,000		<u> </u>
1343	- <u>"</u>	CITRUS S	DTUPP				BACKWASH BEDS (IRON FILTERS)			2,000				
1340	- Π	CRISING	ATVER				DISTRIBUTION STATEM IMPROVEMENT			20,000				
		CRISING	ATURA				NES WELS.			30,000			1	
110		CRISIAL	RIVER		+	┼╌╬	INTERCONNECT W/CITY			20,000		<u> </u>		
350	W	GOLDEN 1	TERRACE			+	INTERCONNECT W/POINT 'O WOODS C			20,000			· · · · · · · · · · · · · · · · · · ·	
351	1 14	GOSPEL I	ISLAND	ļ <u>"</u>	1 6	+ "	THEREOMORE MENTS (TREPADE DIST.)	si			.25,000			
375	W	OAK FORE	ST	<u> </u>	B	1	WITP IMPROVEMENTS/ OF GIADE DIGIN			80,000		ļ		16.000
376	W	OAK FORE	EST ·	M	E	1	WTP UPGRADE	1 1	16,250	16,000	16,000	16,000	16,000	16,000
391		PINE RID	GE	<u> </u>	10	19	FIRE HIDRANIS			120,000				<u> </u>
382	W	PINE RID	DGE	<u> </u>		19	HTDRAULIC ANALISIS/LOOP SISTER					125,000	125,000	<u> </u>
383	W	PINE RIC	GE	W	E	1-9	NEW WELL	,	<u>.</u>	200,000				
384	W	PINE RIC	DGE	M	Б	19	FREDRILL WELL #3/INTERCONNECT W/			300,000	300,000	300,000	300,000	300,000
385	W	PINE RIC	GE		8	19	WATER MAIN EXTENSIONS				35,000			
380	W	PINE RIL	DGE	W	Z	9	G WELL 12, AUX POWER	/ 229 700	15,102	{	•			
381	W	FINE RIC	DGE	W	5	1	WELL 14/PRESSURE TANK/CL2 ELEC	225,100				·		

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PROJECTED CAPITAL IMPROVEMENTS

1992 - 1997

33,914,914 31,449,486 26,465,397 19,722,612 18,186,836 14,297,579 11,226,759

REQ 1996 1997 1995 1993 1994 FRIOR TR 1992 TTP DEP BT: DESCRIPTION PLANT NAME LIN REG 34,293 187,575 R WTP IRON FILTERS W Б ¥. POTIT O WOODS 388 12,000 R WWTP MODIFICATION/BACKWASH FACI S g W POINT O'WOODS 389 12,000 W ROLLING GREEN R ABANDON TWO 4" WELLS ۳. E. 390 10,000 O WATER MAIN UPGRADE W ROLLING GREEN W 5 391 5.000 Q WATER MAIN UPGRADE 10 В W ROSEMONT 392 R WATER TREATMENT PLANT IMPROV. 6 245,260 21,070 ¥ B W ROSEMONT 393 550,000 550,000 E R IMG GST W SUGAR MILL WOODS Ħ. 420 1,050 O R CHLORINE ALARMS 421 W ISUGAR MILL WOODS W 1,260 O R CL2 A REPAIR KIT W SUGAR HILL WOODS GP 422 4,000 O O LABORATORY EQUIPMENT W SUGAR MILL WOODS GP 423 14.000 O O LIFT STATION UPGRADE W SUGAR HILL WOODS S 424 O Q LIFT STATION UPGRADE 25,000 W SUGAR MILL WOODS S 425 3,670 O R MONITORING WELL PUMPS W SUGAR MILL WOODS 5 426 17,740 E G NEW WATER PLANT/2 WELLS/PIPING 858.236 W SUGAR MILL WOODS w 427 250,000 250,000 250,000 W SUGAR HILL NOODS G NEW WELL(EACH YR) ₩. 8 428 400.000 400,000 G WWTP EXPANSION (.5 MGD)/DISPOSA W SUGAR HILL WOODS S B. 429 40,000 W SUGAR MILL WOODS 5 6 Q WWTP FENCE 430

DEIGNAL ENHIBIT OUT & READSEMALED TO JUST SHOW CITRUS CO. SYSTEMS. BLA D/17/55

USED AND USEFUL CALCULATIONS WASTEWATER TREATMENT PLANT

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Company: SSU / FPSC Jurisdiction/All Plants Docket No. 950495-WS Schedule Year Ended: 12/31/95 Hatorical [] Final [X] Historical [] Projected [X] FPSC Uniform [X] FPSC Non-Uniform [X]

Explanation: Provide calculations, analyses, and governmental requirement used to determine the used and useful percentages for the westernetter two plants for the functional test year and the projected test year (I applicable).

FPSC Schedules F-6(S) Page 5 of 7 Preparer: Bliss Recep Sched: A-6, A-10, 8-14

Line	(1)	(2) 1115 Salt	(3) 473 Silver	(4) 1113 - South	(5) 1301 Sugar	(4) 969 Sugarmill	(7) 2801 Sunny	(†) 560 Sunshine	(1) 106 University	(10) \$67 Venetian
No.	Description	Springs	Lake Oaks	Forty	M W	Woods	Hills	Parkway	Shores	Village
1	PERMITTED PLANT CAPACITY	85,000	12,000	60,000	270,000	400,000	60,000	250,000	1,145,000	36,000
2 3	EFFLUENT DISPOSAL CAPACITY	34,000	12,000	60,000	270,000	500,000	80,000	160,000	1,145,000	36,000
4	AVG DAILY FLOW FOR MAX MO. W/S Yr. MR	28,129	7,290	38,941	183,720	361,821	30,011	141,95 1	1,440,218	40,263
7	Treatment and Disposal Plant Treatment and Disposal									
	CALCULATED PERCENTAGE [5]	34.27%	60.75%	79.88%	68.04%	90.45%	60.02%	\$6.78%	100.00% [4]	100.00% [4]
10	ULU PER ORDER	49.00%	13.00%	74.00%	78.00%	58.20%	\$1.00%	\$1.00%	\$3,10%	86.00%
11 12	REQUESTED U & U (3)	49.00%	60.75%	79,88%	78.00%	90.46%	60.02%	66.78%	100.00%	100.00%
13	Effluent Disposal [1]									
14	CALCULATED PERCENTAGE [5]	85.67%	60.75%	79.88%	68.04%	72.36%	60.02%	94.63%	100.00% [4]	100.00% [4]
15	UAU PER ORDER	100.00%	13.00%	74.00%	78.00%	58.20%	51.00%	51.00%	\$3.10%	86.00%
16	REQUESTED U & U [3]	100.00%	60.75%	73.88%	78.00%	72.36%	\$0.02%	94.63%	100.00%	100.00%

(1) Amelia Island, Deltons Lakes, Florida Central Commerce Park, Lahigh (1) Provide rearris, Destini, Laber, French, Carris Connecto Print, Lange Marco Island, Part CVV-seah, and University Shores all have rouse flabilities are convertented 100% used and useful. See Scheetule F-8.1(5) for detail assusations of companie used and useful percentages for the NARUC accounts that require adjusting to recognize the investment on reuse featilities that are considered 100% use

and useful.

(2) Deltens Lakes includes flow from Enterprise which is taken out of serv

(3) Comparing paramitinges based on gross plant belances for the NARUC accounts applicates to each component. (4) If calculated percentage accounts 100% with MR, then

100% in requested. (5) See Key to Calculation included in Introduction.

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USED AND USEFUL CALCULATIONS WASTEWATER TREATMENT PLANT

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Company: \$8U / FPSC Jurisdiction/All Plants Docket No. 950495-WS Schedule Year Ended: 12/31/96 Interim [] Final [X] Historical [] Projected [X] FPSC Uniform [X] FPSC Non-Uniform [X]

Eq nation: Provide calcul ons, shakets, and gover ntal reg. used to determine the used and useful percentages for the washing plants for the historical text year and the projected text year (if appl bie).)

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4 tm -	(1)	(2) 663	(3) 1427	(4) 777	(5) 2201	(#) 1907	(7) 2901	(8) 2601	(9) 994	(10) 2101
No.	Description	Woodmere	Zephyr Shores	Ventura	Creek	Enterprise	Lehigh	island	apring Gerdens	isle
1	PERMITTED PLANT CAPACITY		40.000	1.800.000	interconn.	Plant taken	2.100.000	3.500.000		60.000
2 3 4	EFFLUENT DISPOSAL CAPACITY	800,000	40,000	1,800,000	With Charlotte County	off line. Fio goes to Delt. Lakes	2,100,000	3,500,000	20,000	60,000
5	AVG DAILY FLOW FOR MAX MO. W/ \$ Yr. MR	542,428	28,780	1,814,839	NA	\$4,400	2,823,766	2,482,814	\$7,200	82,765
7	Treatment and Disposal Plant Treatment and Disposal									
	CALCULATED PERCENTAGE [5]	100.00% [4]	71.05%	89.71%	N/A	N/A	100.00% [4]	71.22%	100.00% [4]	100.00% (4)
10	UAU PER ORDER	100.00%	86.30%	69.90%	N/A	N/A	100.00%	78.00%	N/A	N/A
11 12	REQUESTED U & U [3]	100.00%	86.30%	89.71%	N/A	NA	100.00%	78.00%	100.00%	100.00%
13	Effluent Disposal [1]									
- 14	CALCULATED PERCENTAGE [5]	100.00% [4]	71.95%	89.71%	N/A	N/A	100.00% [4]	71.22%	100.00% [4]	100.00% [4]
15	UAU PER ORDER	100.00%	100.00%	69.90%	NA	N/A	81.08%	78.00%	N/A	N/A
18	REQUESTED U & U [3]	100.00%	100.00%	89.71%	N/A	N/A	100.00%	100.00%	100.00%	100.00%

[1] Amelia Island, Deltona Lakas, Flerida Gentral Commarce Park, Lakigh Marco Island, Point O'Woods, and University Shores all have reuse Inclines that are considered 100% used and useful.

See Schedule F-6 1(S) for detail calculations of composite used and useful percentages for the NARUC accounts that require adjusting to

recognize the investment in rouse facilities that are considered 100% use

and useful

aro useful [2] Deltans Lakes includes flow from Enterprise which is taken out of serv [3] Compastie percentages based on gross plant batances for the NARUC accounts applicable to each component [4] if calculated percentage exceeds 100% with MR, then

100% is requested

(5) See Key to Calculation included in Introduction

SOUTHERN STATES UTILITIES, INC.

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FPSC Plant In-Service Additions by Project From the Last Rate Case thru 1996

Year	Project Number	Description	Project Cost	Priority
002-04	SUGAP 1417	WAANS _ WATER		•
1001	uvur milli P	TO ANGLIGGION AND DISTRIBUTION I DISS	74 163	1.Genut
1000		METERS AND METER DISTATE ATTACKS	11 024	L.Gonuch
1992	6	IVID ANTO	7 140	1_Genuch
1002	MC 127777	WATER DI ANT (2 WEI I 6 / BEDNIG	10 308	Limut
1004	61(******	A Chan ART	40 134	2./Jonusk
1004	550 TT 434	WETER CHANGE OFTS	79 667	A Quality of Service
1004	BAC 12/249	DI ANT DYDANGIAN	17 ACT	2-Regulatory Mandate
1004	M77777	MATTERS & METER INSTALL ATIONS	20,542	3-Growth
1004	9400077	METER CHANGE OUTS	\$ 797	4-Onality of Service
1904	M77177	SERVICE INSTALLATIONS	7 605	3-Growth
1004	92 CW114	METERS & METER INSTALLATIONS	A 010	3-Growth
1904	64C W375	FLOW RECORDERS & RATE INDICATORS WTP 1 & 3	\$ 201	2-Regulatory Mandate
1004	91CW210	PRESSIBE BEDUCTION VALVES	3,701	1-Safety
1004	84CW070	WATER SERVICES	3.679	3-Growth
1994	90CW362	REBUILD (2) 50 HP PUMPS	3.411	S-General Improvement
1994	90CW215	GAS CHLORINATORS (3)	3,398	2-Regulatory Mandate
1994	\$3CW251	HYDRANTS - WATER	3,075	3-Growth
1994	92CW457	CL2 ALARMS	2.034	2-Regulatory Mandate
1994	CP	TRANSMISSION AND DISTRIBUTION LINES	1.475	3-Growth
1994	91CW302	IMPROVE 50 HP WELL MOTOR - WTP #3	1,336	5-General Improvement
1994	CP	SERVICES	425	3-Growth
		1992-94 Subtotal	272.220	
005 51	CAR MILL D			
1005	OAK MILL N	NEW NETED/CHANGE OUT DOG	4 017	A Quality of Service
1005	30.3413 ·	NEW METERSCHANGE OUT FRO	7,71/	+ group of service
1004	75L(14V9 *	NEW METERS/CHANGE OUT PRO	3 997	3-Growth
1005		I A WATED METED DETDAET	3,66/	2-Beenlaron Mandaro
1005	99CU411*	IN WATER MEIER REIRVFIL WATER SERVICES	3,422	2-Acguate Manual
1005	50C 17415*	WATED SERVICES	2,000	Commit
1004	9303613	WATED SERVICES	2,707	3-Growth
1993	95CC404 *	THAT ISAN CTO SCATES ()	2,710	S.General Improvement
1005	93C 11430	NEW METERS/CHANGE OFF BDG	2,007	Lougin of Service
1005	93CC203*	WATED SEDVICES	2,342 1 27 6	- Land of service
1005		WAIER JER VICE)	646,1 1,26	A Quality of Service
1005		A I LEAN 19 ATT AD DI ATD /DOTO BA/D/CIETD	300	2. Beaulators Mandare
1005		GILORINA IN DYTENSIONS	202	Const
1005	95CC201 *	WALLER MAIN EALENSIUNS	150	2-Beeuleron Mandate
1004		MEIER IEDI/INDIALL EQUIP		· 2-neguatory mandale
TAA2	3366400 *	FIRE RIDRANIS		1-Jujery

Note: * The budget process has regional capital projects for water only and sewer only additions. This detail by plant allocates those budgeted dollars to all water or sewer plants, based on total company number of water or sewer customers.

SOUTHERN STATES UTILITIES, INC.

FPSC Plant In-Service Additions by Project

From the Last Rate Case thru 1996

Year				
	Number	Description	Cost	Priority
196 SUA	GAR MILL W	OODS - WATER		
1996	95CWEEE	0.5 MG GST/HIGH SERV PUMP	715,903	2-Regulatory Mandate
1996	96R0060 *	METERS	14,061	3-Growth
1996	96R0059 *	MISCELLANBOUS EQUIPMENT	10,761	4-Quality of Service
1996	96R0058 *	SERVICES	10,043	3-Growth
1996	96R0057*	LARGE METER RETROFIT	4,782	2-Regulatory Mandate
		1996 Subtotal	755,550	
		Water	1,060,730	
92-94	SUGAR MILL	, WOODS - WASTEWATER		-
1992	CP	COLLECTIONS SEWER - GRAVITY	121,335	3-Growth
1992	CP	STRUCTURES AND IMPROVEMENTS	62,500	3-Growth
1992	CP	COLLECTIONS SEWER - FORCE	29,666	3-Growth
1992	CP	SERVICES	12,501	3-Growth
1993	91CW209	LIFT STATION UPGRADE	28,186	4-Quality of Service
1993	93CW254	LIFT STATION (3)	20,687	3-Growth
1993	92CW098	MONITORING WELL PUMPS	3,627	2-Regulatory Mandate
1993	93CW356	PUMP	2,616	5-General Improvement
1993	93CW403	REBUILD PUMP	1,463	5-General Improvement
1993	93CW511	ELECTRICAL WIRE FOR NEW LIFT STATION	1,046	3-Growth
1993	93CW370	REBUILD PUMP	\$57	5-General Improvement
1994	93CW664	LIFT STATIONS (2)	35,185	3-Growth
1994	90CW216	LIFT STATION PUMP (1, 2, 17)	22,864	5-General Improvement
1994	94CW209	PANEL & PUMP @ L/S #1	9,753	5-General Improvement
1994	93CW696	GRAVITY MAIN & SERVICES	8,544	4-Quality of Service
1994	90CW376	INSTALL GRAVITY MAINS	8,491	3-Growth
1994	94CW373	REROUTE SERVICE LINES	7,385	4-Quality of Service
1994	94CW375	L/S PUMP & MOTOR (OAK-B)	6,208	5-General Improvement
1994	93CW640	EMERGENCY PUMPING EQUIPMENT	6,137	4-Quality of Service
1994	91CW374	TELEMETRIC EMERGENCY PHONE DIALERS	4,404	1-Safety
1994	CP	COLLECTIONS SEWER - GRAVTIY	2,700	3-Growth
1994	92CW343	PUMP AT L/S #3	2,266	5-General Improvement
1994	91CW305	1 1/2 HP SUBMERSIBLE PUMP	1,026	5-General Improvement
1994	90CW370	LIFT STATION CONTROL PANELS	765	1-Safety
1994	91CW209	LIFT STATION UPGRADE	113	4-Quality of Service
		1992-94 Subtotal	400,322	
995 SU	GAR MILL W	OODS - WASTEWATER		
1995	93CW255	WWTP IMPROVEMENTS	875,038	2-Regulatory Mandate
1995	95CC204 *	HAND RAILS/WALKWAY	4,100	1-Safety
1995	95CW725*	LINE EXTENSIONS - SEWER	1,318	3-Growth
1995	95CS212 *	SEWER SERVICES	626	_5-General Improvemen

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Note: * The budget process has regional capital projects for water only and sower only additions. This detail by plant allocates those budgeted dollars to all water or sower plants, based on total company number of water or sower customers.

SOUTHERN STATES UTILITIES, INC. FPSC Plant In-Service Additions by Project

From the Last Rate Case thru 1996

	n an an Arthur An	In-Service Additions - Detail by Project		
Year	Project Number	Description	Project Cost	Priority
1996 SU	GAR MILL V	VOODS - WASTEWATER		
1996	96R0073	LIFT STATION MODIFICATION	59,500	4-Quality of Service
		1996 Subtotal	59,500	,
			1,340,903	-
		Total Sugar Mill Woods	2,401,633	

Note: * The budget process has regional capital projects for water only and sewer only additions. This detail by plant allocates those budgeted dollars to all water or sewer plants, based on total company number of water or sewer customers.

PAGE 1 OF 3

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<u>SSU ANSWER TO PSC INTERNOGATORY</u> 27 R-A - CITRUS CO. SYSTEMS. DOCHET NO. 930880-WS.

SCHEDULE OF FIVE-YEAR CONSTRUCTION PROJECTS BY SYSTEM - WATER & - SEWER - Plant Additions and Ending Balances -

PLANT ADDITIONS AND ENDING BALANCES

PLANT NAME	PLTE	PROJECT DESCRIPTION	ALLOCATION FACTOR	1993 Additions	1993 End Bal	1994 Additions	1994 End Bal	1995 Additions	1995 End Bal.	1996 Additions	1995 End Bal	1997 Additions	1997 End Bal
Apache Shores	990 V	Upgrade Water Lines-Distribution System Austriary Generator			0 0		0 0		D 0	0	0 0	10.000	10,000 0
		Allocated General & Miscellaneous Plants	0.107291%	5,526	5,526	5,423	0 10,949	5,993	0 16,943	0 6,767	0 23,710	7,374	0 31,083
				5,526	5,526	5,423	10,949	5,993	16,943	6,767	23,710	17,374	41,083
Apache Shores	990 S	Replace & Upgrade Collection System Allocated General & Miscellaneous Plants	0 073241%	3,772	0 3,772	3,702	0 7,474	4,091	0 11,566	15,000 4,619	15,000 16,185	15,000 5,034	30,000 21,219
				3,772	3,772	3,702	7,474	4,091	11,566	19,619	31,185	20,034	51,219
Citrus Springs	906 142	Generator / Well #3 Interconnect with Pine Ridge Well #2 Addition 1.0 MGD Storage Tanlu/HS Pump Building Allocated General & Miscellaneous Plants	1.123668%	57,874	0 0 0 57,874	56,799	0 0 0 114,673	70,000 62.767	0 70,000 0 177,441	35,000 70,000 20,000 70,871	35,000 140,000 20,000 0 248,311	550,000 77,225	35,000 140,000 20,000 550,000 325,536
			-	57,874	57,874	56,799	114,673	132,767	247,441	195,871	443,311	627,225	1.070.536
Citrus Springs	90 S	6 Upgrade Lift Station 2/A WWTP Upgrade Allocated General & Miscellaneous Plants	0.437517%	22,534	0 0 22,534	35,000 22,116	35,000 0 44,650	60, 000 24,439	35,000 60,000 69,089	60,000 27,595	35,000 120,000 96,684	60,000 30,069	35,000 180,000 126,753
				22,534	22,534	57,116	79,650	84,439	164,089	87,595	251,684	90,069	341,753
Crystal River والاحديد يون دفع	984 107	WTP Improvements Distribution System Improv Anvestigation Allocated General & Miscellaneous Plants	0.044330%	45,369 2,283	45,369 0 2,283	2,241	45,369 0 4,524	0 2,476	45,369 0 7,000	0 2,796	45,369 0 9 796	0 3 047	45,369 0 12,843
			-	47.652	47,652	2.241	49,893	2,475	52,369	2,796	55,165	3.047	58,212
Golden Terrace	992 V	Abandon WTP 81 & WTP 82 Interconnect with City of Inverness Allocated General & Miscellaneous Plants	0.065174%	32,694 3,408	0 32,694 3,408	0 3,345	0 32,694 6,753	3 <u>.69</u> 6	0 32,694 10,450	4,174	0 32,694 14,523	4 548	0 32,694 19,171
				36,102	36,102	3,345	39,447	3,696	43,144	4,174	47,317	4 548	51,865
Gospel Island	985	Allocated General & Miscellaneous Plants	0 005782%	298	0 298	292	0 590	323	0 913	365	0 1,278	397	0 1,675
	M4			298	298	292	590	323	913	365	1.278	397	1.675

PALE 2 OF 3

SCHEDULE OF FIVE-YEAR CONSTRUCTION PROJECTS BY SYSTEM - WATER & SEWER

SSU ANS	ince To	125C 11	UTENROGATORY
278-A	-CITRUS	Co. :	SYSTEMS.
DOCKET	5 11 UZ	OBBR-	ins

			PLANT ADDITIONS AND ENDING BALANCES										
PLANT NAME	PLT	PROJECT DESCRIPTION	ALLOCATION FACTOR	1993 Additions	1993 End Bal	1994 Additions	t994 End Bal	1995 Additions	1995 End Bal,	1996 Additions	1996 End Bal.	1997 Additions	1997 End Bal.
Oak Forast	953 ¥4	Water Distribution System WTP Upprade & Aux Power Allocated General & Miscolianeous Plants	0 089302%	4,599	0 0 4,599	30,000 4,514	0 30,000 9,114	5,000 30,000 4,988	5,000 60,000 14,102	5.632	5,000 60,000 19,734	5,000 6,137	10,000 60,000 25,872
				4,599	4,599	34,514	39,114	39,988	79,102	5,632	84,734	11,137	95,872
Pine Ridge Utilitie	907 1/2/	Redrill Well 83 & Interconnect with Well 8 Hydraulic Analysis/Loop System Hydrants Well 82 / Auxiliary Generator		15.164	0 0 15,164 0		0 0 15,164 0	60.000 40.000	0 60,000 16,164 40,000	100,000 60,000	100.000 120.000 16.164 40.000	10 000	110,000 120,000 16,164 40,000
	·	Additional Well Allocated General & Miscellaneous Plants	0 307097%	15,817	0 15,817	125,000 15,523	125,000 31,340	125,000 17,154	250,000 48,494	19,369	250,000 67,863	21,106	250,000 88,969
				31,981	31,981	140,523	172,504	242,154	414,658	179,369	594,027	31,105	625,133
Point O' Woods	987 Vd	WTP Iron Filters Allocated General & Miscellaneous Plants	0 221650%	11,080 11,416	11,080 11,415	13,204	11,080 22,620	12,381	11,080 35,001	13,980	11,080 48,961	15.233	11,080 64,214
	••			22.495	22,496	11,204	33,700	12,381	46,081	13,980	60,061	15,233	75,294
Point O'woods	967 S	Allocated General & Miscellaneous Plants	0.082878%	4,269	0 4,269	4,189	0 8,458	4,629	0 13,087	5.227	0 18,315	5,696	24,010
	-			4,269	4.269	4,189	8,458	4,629	13,087	5.227	18,315	5,696	24,010
Polling Green	985 W	Water Main Upgrade Alocated General & Miscellaneous Plants	0.051397%	2,647	0 2,647	2,598	0 5,245	2,871	0 8,116	0 3,242	D 11,358	0 3,532	0 14,890
				2.647	2.647	2,598	5,245	2 871	8,116	3.242	11,358	3,532	14,890
Rosemont	988	Water Main Upgrade Allocated General & Miscellaneous Plants	0 029553%	1,522	0 1,522	1,494	0 3,016	1,651	4,667	0 1,864	0 6,531	0 2,031	0 8,562
	W4		-	1,522	1,522	1,494	3,015	1,651	4,667	1,864	6,531	2,031	8,562
Sugar Mill Woods	989 (0.5 MGD GST TMG Ground Storage Tank		136,635	136,6350	500,000	636,635		636,635 0 (5.000	550,000	636,635 550,000 15,000	550,000	636,635 1,100,000 15,000
•	W-	Abandon WTP #1		2,590	2 590	3,000	5,590	3,000	8,590	3,000	11,590	3,000	14,590
	-	Additional Wells Miscellaneous Plants	1 261797%	64 988	0 64,998	125 000 63,791	125,000	125,000 70,423	250,000 199,253	79,583	278,836	B6.718	365,554
	-	· · · · · · · · · · · · · · · · · · ·	-	204,213	204,213	705,781	910,995	198,483	1,109,478	632,583	1,742,061	639,718	2,381,779

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PACE 3 OF 3

554 ANSWER TO PSC INTERROGATORY 27 R-A - CITRUS CO SYSTEMS. DRCKET NO. 930880-W9.

SCHEDULE OF FIVE-YEAR CONSTRUCTION PROJECTS BY SYSTEM - WATER

PLANT ADDITIONS AND ENDING BALANCES

PLANT NAME	PLTE	PROJECT DESCRIPTION	ALLOCATION FACTOR	1993 Additions	1993 End Bal.	1994 Additions	1994 End Bał	1995 Additions	1995 End Bal.	1996 Additions	1996 End Bal.	1997 Additions	1997 End Bal
Sugar Mill Woods	989 - 5	Collection System (Air Release) New Lift Stations (3) Pond Cleaning 1 & I Investigation 1 & I Investigation 1 & I Investigation 2 & MGD WWTP Expansion Allocaled General & Miscellaneous Plants	1.212970%	15,543 102,815 62,473	0 15,543 0 0 0 102,815 62,473	50,000 10,000 150,000 61,313	0 65,543 0 10,000 252,815 123,787	5.000 16.000 0 20.000 500.000 67.756	5,000 81,543 0 30,000 752,815 191,542	32,000 0 15,000 1,200,000 76,503	5,000 113,543 0 0 45,000 1,952,815 268,046	0 10,000 83,362	5,000 113,543 0 0 55,000 1952,815 351,408
				180,831	180,831	271,313	452,145	608,756	1,060,900	1,323,503	2,384,404	93,362	2,477,766

MOTE: BRIGUAL 2718-& HAD ALL WATER & SEWER SYSTEMS LISTED

 ALMAR BETICALLY.	THE CITANS CO. SYSTEM	S WERE CUT OUT	
 & REASSEMBLED	FOR THIS ERAVIBIT.	BLH	
		7/17/94	······································

DOCKET NO. 930880-WS INVESTIGATION INTO APPROPRIATE RATE STRUCTURE FOR SSU

LATE FILED HEARING EXHIBIT NO.32

TITLE

Five Year Capital Budget Plans for Previous Two Years (1991 and 1992)

SOUTHERN STATES UTILITIES, INC. DOCKET NO. 930880-WS INVESTIGATION INTO APPROPRIATE RATE STRUCTURE FOR SSU LATE FILED HEARING EXHIBIT NO. 32

Question:

Five Year Capital Budget Plans for Previous Two Years (1991 and 1992)

Response:

Attached are the summary of capital budget plans for 1991 and 1992.

PROJECTED CAPITAL IMPROVEMENTS

1992 - 1997

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33,914,914 31,449,486 26,465,397 19,722,612 18,186,836 14,297,579 11,226,759

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LIN	REGI	PLANT NAME	TYP	DEP	BY :	DESCRIPTION	PRIOR YRS	1992	1993	1994	1995	1996	1997
			· · · ·	Ι									
10	λ	TOOLS & EQUIPMENT	G	6/0	0	ENGINEERING/OPERATIONS TOOLS & EQU		213,561	250,000	260,000	270,000	281,000	292,000
11	A	VEHICLES	G	Б	0	VEHICLES		349,470	480,000	499,200	519,170	539,930	561,530
12	A.	METERS	W	0	G	METER CHANGE OUT PROGRAM		90,595	192,500	210,210	229,550	250,670	273,730
13	ΎΑ.	NEW EXTENSIONS -	¥	0	G	NEW EXTENSIONS - WATER (5000 new c		1,316,044	750,000	780,000	811,200	843,648	877,394
14	X	NEW EXTENSIONS -	S	0	G	NEW EXTENSIONS - SEWER (900 new co		18,700	135,000	140,400	146,016	151,057	157,931
15	A	UNANTICIPATED	W	U	U	UNANTICIPATED ADDITIONS (10% IN '9	i	0	2,405,945	3,287,102	3,637,367	3,299,441	2,910,641
16	A	SUSI	G	B	0	OFLE, COMPUTERS, BLANKETS, MISC.		1,467,602	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
10	A	ENGINEERING DEPT.	S	8	R	UNDERGROUND STORAGE REPLACEMENT		110,000	10,000				
20	c	APPLE VALLEY/SANL	W	B	R	DISTRIBUTION UPGRADE PER FPSC			200,000	200,000			
21	c	APPLE VALLEY/SANL	W	0	Q	NEW HIGH PUMP SERVICE			10,000				
22	c	APPLE VALLEY/SANL	W	0	Q	NEW HYDRO-PNEUMATIC TANKS							30,000
23	c	APPLE VALLET/SANL	W	B	Q	UTILITY RELOCATIONS/UPGRADES			50,000	55,000	60,000	65,000	70,000
24	c	APPLE VALLEY/SANL	W	E	Q	WATER MAIN IMPROVEMENTS	[25,000	30,000	35,000	40,000	45,000
25	c	APPLE VALLEY/SANL	W	B	Q	WTP IMPROVEMENTS			25,000	25,000			
26	c	BAY LAKE ESTATES	W	0	Q	AUTOMATIC SWITCHOVER FOR GENERATOR			5,000				
27	С	CARLTON VILLAGE	W	0	R	ABANDON 4" WELL & MAIN PLT.			5,000	<u> </u>			
28	c	CARLTON VILLAGE	W	0	Q	DISTRIBUTION SYSTEM REPLACEMENT/UP				50,000			
29	c	CARLTON VILLAGE	W	B	R	EMERGENCY GENERATOR/WTP IMPROVEMEN		<u> </u>	30,000	1]		
30	c	CARLTON VILLAGE		0	g	NEW HYDRO TANK		<u> </u>		25,000	ļ		
31	С	CARLTON VILLAGE	W	0	Q	NEW WELL PUMP, SUBMERSIBLE		<u> </u>		10,000	ļ		
32	С	CENTRAL REGION	G	0	R	NEGOTIABLE REGULATORY REQUIREMENTS	3	65,000		I	<u> </u>		
33	c	CENTRAL REGION	W	0		UNSCHEDULED MAIN LINE REPLACEMENTS	5	20,000	· · · · · · · · · · · · · · · · · · ·				
34	С	CHULUOTA	s	0	S C	NEW LIFT STATION -LOCATED ON PRIVI	N		30,000				
35	c	CHULUOTA	W	0		REPLACE 10,000 GAL HYDRO TANK						35,000	
36	c	CHULUOTA .	s	B	5	UPGRADE COLLECTION SYSTEM -INFILT	ર		25,000	30,000	35,000	40,000	45,000
37	c	CHULUOTA	W	E	G	UPGRADE DISTRIBUTION SYSTEM			50,000	55,000	60,000	65,000	70,000
31	i c	CHULUOTA	M			WIP #2 FOR NEW DEVELOPMENTS			50,000	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	<u>-</u>
39) c	DAETWILER SHORES	, N		7 (PLUG ABANDONED WELLS/ABANDON PLAN	Г	1	6,500			ļ	<u> </u>
4		DOL RAY MANOR	M		1	ABANDON PLANT/INTERCONCT. W/ALTAM	0		25,000	<u></u>		<u> </u>	
		EAST LAKE HARRIS	W	i c		A 45KW EMERGENCY GENERATOR			30,000	<u> </u>		<u>}</u>	ļ
	2 0	EAST LAKE HARRIS	M		5	R FENCE AROUND PLANT PROPERTY			5,000	<u>، </u>		<u> </u>	<u> </u>
4		EAST LAKE HARRIS	1 W	r E		R INTERCONNECT WITH FRIENDLY CENTER			50,000)	`		
4	4 0	EAST LAKE HARRIS			: (NEW HYDRO TANK - ASME CODE			25,000	<u> </u>			
4	5 0	EAST LAKE HARRIS	V		5 1	R NEW WELL PUMP			10,000	0			
	6 0	FERN PARK	•	•	517	NEW ROOF FOR GROUND STORAGE TANK			25,000	0			
4	7 0	PERN PARK	7	1 1	B	Q NEW UPGRADE INTERCONNECT W/ALTA S	P		50,000	30,00	0	1	

PROJECTED CAPITAL IMPROVEMENTS

1992 - 1997

33,914,914 31,449,486 26,465,397 19,722,612 18,186,836 14,297,579 11,226,759

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				REQ		!							1007
LIN	REG	PLANT NAME	TTP	DSP	BT :	DBSCRIPTION	PRIOR TR	1992	1993	1994	1995	1996	1997
48	С	FISHERMAN'S HAVEN	Ħ	0	R	BLOWER COVER			1,000				<u> </u>
49	C	FISHERMAN'S HAVEN	W	0	R	DUAL CL2 WITH AUTO SWITCHOVER			5,000				
50	C,	FISHERMAN'S HAVEN	S	8	R	FLOW METER/UPGRADE PLANT/DRAIN	162,215	7,808					
51	. C	FISHBRMAN'S HAVEN	W	В	R	INTERCONNECT WITH LEILANT #2 WE			75,000				
52	C	FISHERMAN'S HAVEN	W	B	Q	NEW HYDRO TANK - 10,000 GAL					30,000		
53	С	FISHERMAN'S HAVEN	S	B	Q	SLUDGE STABILIZATION/ADDITL. DI			25,000				
54	С	FL. CENTRAL COMM.	S	B	G	EFFLUENT DISPOSAL UPGRADE/STUDY			10,000				
55	c	FL. CENTRAL COMM.	S	0	0	STORAGE AND WORK AREA SHED		500					
56	C	FOUNTAINS	Ħ	В	R	GENERATOR							50,000
57	C	FOX RUN	S	B	R	BFFLUENT DISPOSAL SYSTEM IMPROV	29,380	116,091	33,909				
58	c	FRIENDLY CENTER	Ħ	0	R	FENCE AROUND PROPERTY			2,500				
. 59	C	FRIENDLY CENTER	W	B	Q	NEW HYDRO TANK					30,000		
60	c	GRAND TERRACE	W	B	R	GENERATOR			45,000				
61	c	GRAND TERRACE	W	8	R	SECOND WELL			75,000				
62	c	HID BST/DRUID HLS	W	0	Q	AERATOR				15,000			
63	c	HID EST/DRUID HLS	Ħ	B	R	DISTRIBUTION LOOPING PER PSC			30,000				
64	c	HID EST/DRUID HLS	W	0	R	DUAL CHLORINE SCALE		954					
65	c	HID EST/DRUID HLS	W	0	C	INTERCONNECT WITH ALTAMONTE SPR				25,000			
66	c	HID EST/DRUID HLS	W	0	R	NEW 8000 GAL. HYDRO TANK '		16,000					
67	c	HID EST/DRUID HLS	W	О	C	REPLACE STORAGE TANK				40,000			
68	c	HOBBY HILLS	W	0	P	FENCE			5,000				
69	t c	HOBBY HILLS	W	B	F	GENERATOR			30,000				
70	c	HOBBY HILLS	W	0		NEW EQUIPMENT BUILDING				10,000			
71	c	HOLIDAT HEIGHTS	W	0		ABANDON PLANT			15,000				
72		HOLIDAY HEIGHTS	W	B	1	INTERCONNECT W/ORANGE CO.			15,000	1			
73	t_{c}	IMPERIAL TERRACE	W	B	17	ABANDON PLANT/STUDY			2,500				
74	c	IMPERIAL TERRACE	W	B	T	INTERCONNECT WITH TAVARES			70,000				<u> </u>
75	c	INTERCESSION CITY	W	8	1	NEW WELL				70,000			
7		INTERCESSION CITY	W	0		REMOVE WATER TOWER			5,000				
77		INTERCESSION CITY	W	E		TRANSMISSION & DISTRIBUTION STS	25,049	4,164	25,000	25,000	25,000	25,000	25,000
17		LAKE AJAT	W	10		AERATOR REPLACEMENT			10,000				
79		LAKE AJAT	W	10		R PLUG ABANDONED WELL			3,000				
8		LAKE BRANTLEY	W	E		INTERCONNECT W/SANLANDO STUDY			5,000		1		
	1 0	LAKE BRANTLEY	W	10	5	NEW AFRATOR / GROUND STORAGE TA			15,000				
8	2 0	LARE BRANTLET	W		5	NEW HYDRO TANK	1		30,000				
8	3 0	LAKE CONWAT/VEN V	W	0	5	R PLUG ABANDONED WELLS/ABANDON PL			6,500				
8	4 (LAKE COUNTY OFFIC	W	C	,	R 4 CHLORINATORS-SPARES AND BOOST			6,120	•			
	5 6	LARE COUNTY OFFIC	s	C	,	R PORTABLE GENERATOR		16,525					

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PROJECTED CAPITAL IMPROVEMENTS

1992 - 1997

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33,914,914 31,449,486 26,465,397 19,722,612 18,186,836 14,297,579 11,226,759

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LIN	REG	PLANT NAME	TTP	DEP	BY :	DESCRIPTION	PRIOR TR	1992	1993	1994	1995	1996	1997
								T T					
86	С	LAKE HARRIET	W	0	Q	NEW HIDRO TANK				1	35,000		
87	С	LEILANI HEIGHTS	W	0	R	CL2 ALARMS DUAL CL2			2,500			,	
86	с	LEILANI HEIGHTS	W	В	R	GENERATOR W/AUTOMATIC SWITCHOVE			45,000				
89	t	LEILANI HEIGHTS	S	8	R	INDIAN RIVER LAGOON COMPLIANCE			150,000				
90	С	LEILANI HEIGHTS	W	0	Q	REPLACEMENT HYDRO TANKS WTP #1			30,000				
91	С	LEILANI HEIGHTS	S	B	Q	SLUDGE STABILIZATION			65,000				
92	С	MARTIN COUNTY OFF	W	0	Q	BLANKET PURCHASES AREA S1		5,838	[
93	c	MARTIN COUNTY OFF	W	0	R	CHLORINE SCALES (SINGLE)		1,005					
94	c	MERBDITH MANOR	W	B	R	DISTRIBUTION SYSTEM /UPGRADES P			50.000	50,000	50.000	50.000	50,000
95	с	MEREDITH MANOR	W	8	R	IRON FILTERS OR INTERCONNECT AL			100,000				
96	c	MBREDITH MANOR	W	0	0	REPLACE STORAGE TANK W/50.000 A					60.000		
97	c	MORNINGVIEW	S	B	R	ADDITIONAL DIGESTER				50,000			
98	c	MORNINGVIEW	W	0	R	HYDRO TANK RELOCATION		16,865					
99	с	MORNINGVIEW	S	B	R	NEW LIFT STATION			65,000	-			· · · · ·
100	c	OSCEOLA COUNTY OF	W	0	R	2 SPARE CHLORINATOR AND INJECTO			5,150		·····		
101	c	PALMS MOBILE HOME	W	8	R	PALMS MOBILE HOME IRON FILTERS		36,416		· · · · [·		· ··· -	
102	c	PICCIOLA ISLAND	Ħ	0	G	CHLORINATION/SCALES			2.000				
103	c	PICCIOLA ISLAND	W	0	R	CL2 ALARM			500			•	
104	c	PICCIOLA ISLAND	W	0	R	FENCE			5.000				
105	c	PINE RIDGE ESTATE	W	8	0	INTERCONNECT W/FOUNTAINS WTP				50.000			
106	l c	PINE RIDGE ESTATE	W	B	G	WINDMILL POINT WATER MAIN IMPRO		46.736				·····	
107	$\frac{1}{c}$	PINE RIDGE ESTATE	W	8	R	WTP FILTERING SYSTEM	h				50.000		
108	Ċ	PINET WDS/SPRING	W	ō	R	FENCE			7.500				
109	t c	PINET WDS/SPRING	. W	0	То	REPLACE HYDRO TANK				·	30.000		
110		OUATL RIDGE	W	10		FENCE			5.000				· · · · ·
111	Ċ	SEMINOLE COUNTY O	W	Ō	R	2 SPARE CHLORINATORS AND BOOSTE			4.590				
112	c	SILVER LAKES	W	B	G	DISTRIBUTION STSTEM IMPROVEMENT				50.000	50.000		
113	c	STIVER LAKES	W	0	R	EMERGENCY GENERATOR			43.798				•
114	Ċ	SILVER LAKES	W	0	0	NEW HYDRO TANK				30.000			
115		SILVER LAKES	W	E		WTP IMPROVEMENTS - GST & SAND			50,000				
116	- c	SETCREST	W	Ō	R	FENCE			5,000				
1117	l c	SKTCREST	W			FIRE WELL INTERCONNECT			25 000				
118	Ċ	SKTCREST	W	R		GENERATOR		···	45 000				
111		SETCREST	W			NEW HYDRO TANK			10 000				
1120	r c	SUNSHITNE PARKWAY	W			2 WELL METERS PER C.U.P.			5 000				
12		SUNSHINE PAREWAY	s	T F		ADDITIONAL DIGESTER	lł		5,000			10.000	·
1122	1 r	SUNSHINE PAREWAY	5	T E		EFFLUENT DISPOSAL SYSTEM & LAND	573 570	89 210					····
12	l c	SUNSHINE PARKWAY	w	17	1	NEW AERATOR	323,313	0,,210				20.000	
117 118 119 120 121 122 123		SKYCREST SKYCREST SUNSHINE PARKWAY SUNSHINE PARKWAY SUNSHINE PARKWAY SUNSHINE PARKWAY	W W W S S S	B B O E E O	R R R R R R	FIRE WELL INTERCONNECT GENERATOR NEW HYDRO TANK 2 WELL METERS PER C.U.P. ADDITIONAL DIGESTER EFFLUENT DISPOSAL SYSTEM & LAND NEW AERATOR	523,579	89,210	25,000 45,000 30,000 5,000			10,000	

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PROJECTED CAPITAL IMPROVEMENTS

1992 - 1997

33,914,914 31,449,486 26,465,397 19,722,612 10,186,836 14,297,579 11,226,759

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LIN	REG	PLANT NAME	TTP	DEP	87 :	DESCRIPTION	PRIOR YR	1992	1993	1994	1995	1996	1997
124	С	SUNSHINE PARKWAY		6	Q	NEW HYDRO TANK - 10,000 GAL						30,000	
125	С	SUNSHINE PARKWAY		0	Q	PADDLE WHEEL DRIVE/GEAR UNIT RE				10,000			
126	C	SUNSHING PARKWAY	W	B	G	TIE-IN TO B'S RV PARK			100,000				
127	C	SUNSHINE PARKWAY	S	B	G	TIE-IN TO B'S RV PARK			.100,000				· · ·
128	c	TROPICAL ISLE	Ħ	0	R	BLOWBR COVERS (2)			3,000				
129	С	TROPICAL ISLE	S	0	R	FENCE		17,064	5,000				
130	С	TROPICAL ISLE	5	0	R	HANDRAILS AND PLATFORMS		16,250	10,000				
131	С	TROPICAL ISLE	S	B	R	INDIAN RIVER LAGOON SWIM ACT MO			150,000				
132	С	TROPICAL ISLE	Ħ	0	R	POTABLE WATER SUPPLY FOR CL2	126		5,000				••••••
133	C	TROPICAL PARK	Ħ	6	Q	ABANDON NO. 2 PLANT			10,000				
134	С	TROPICAL PARK	W	B	Q	DISTRIBUTION SYSTEM UPGRADES/RE		12,009	20,000	22,500	25,000	27,500	30,000
135	c	TROPICAL PARK	W	8	Q	INTERCNCT. W/K.U.A./INSTEAD OF			15,000				
136	С	TROPICAL PARK	W	8	R	MANGANESE FILTERS			50,000				
137	C	TROPICAL PARK	Ħ	5	Q	NEW HYDRO TANK							40,000
138	с	UNIV. SHORES/SUNC	S	0	R	BLOWER/GENERATOR HOUSING		1,500					
139	c	UNIV. SHORES/SUNC	W	0	R	CHLORING VACUUM LOSS ALARM SYST		700					
140	С	UNIV. SHORES/SUNC	S	0	0	DEMOLISH ABANDONED HOUSE, REMOV			5,000		· · · · · · · · · · · · · · · · · · ·		
141	c	UNIV. SHORES/SUNC	S	в	Ŕ	EFFLUENT DISPOSAL FOR AWT #1				250,000	250.000	250.000	250.000
142	c	UNIV. SHORES/SUNC	S	в	G	EFFLUENT DISPOSAL & LAND. DAVCO			500.000	500.000	500.000	<u> </u>	
143	l c	UNIV. SHORES/SUNC	5	o	0	EMERGENCT GENERATOR STP 12		36.100					
144	c	UNIV. SHORES/SUNC	S	8	0	FORCE MAIN (EAST SIDE)	99.430	13.309					
145	c	UNIV. SHORES/SUNC	S	0	R	IRRIGATION UPGRADE CHAPEL HILL		17.000		·····			•
146	c	UNIV. SHORES/SUNC	¥	0	0	NEW HYDRO TANK REPLACEMENT						45.000	
147	l c	UNIV. SHORES/SUNC	Ś	0	ō	NEW LABORATORY BUILDING. EQUIPM				100.000			
148	1 c	UNIV. SHORES/SUNC	W	E	G	NEW WELL AND LAND AT UNIVERSITY			· · · · · ·		150.000	t	
149	- c	UNIV. SHORES/SUNC	S	0	R	REBUILD TREATMENT PLANT AIR BLO		12,000				†	
150	1 c	UNITY. SHORES/SUNC	S	0	G	REFURBISH DAVCO #2				100.000			
151	$\frac{1}{c}$	UNTY, SHORES/SUNC	s	Ťō	R	REFURBISH STP 41		70,000			ł-		
152		TINTY, SHORES/SUNC	W	10	Ö	REFURBISH TOP OF GROUND STORAGE		29 400					
157	$\frac{1}{c}$	UNTY, SHORES/SUNC	s	R	ō	REPLACE MANHOLE COVERS AD IN H			150 000				
154		TINTY SHORES/STINC	-	R	a	WWTP 42 EXPANSION	37 797	112 245	2 000 000				
155		VENETIAN VILLACE	e		7	ADDITIONAL DIGESTOR	52,172	115,545	25 000				<u> </u>
156		VENETIAN VILLACE		Ťň		SECOND BLOWED		7 550	23,000				
157	N N	AMPLIA TOTANO		Ť	G	COLLECTION IMPROVEMENTS		0,00		125 000	125 000	·	
1.5	1 14	AMPLIA TOLAND		۲č				36.000			125,000		
150	11	AMRT TA TSTAND		분	ک ا			38,000			20.000	20.000	20 000
159	1 22	AMPLIA TOLAND	3	۲ž		DOOR DEDT FORMER		12 002	20,000	20,000	20,000	20,000	20,000
100	1 10	ARELLA ISLANU	GP	<u>اب</u>		ROOF REPLACEMENT		13,000					
1101	I N	AMELIA ISLAND	S	B	G	SEWER PLANT EXPANSION	1,963,828	4,393			· · ·	1	

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PROJECTED CAPITAL IMPROVEMENTS

1992 - 1997

33,914,914 31,449,486 26,465,397 19,722,612 18,186,836 14,297,579 11,226,759

LIN	REG	FLANT NAME	TTP	DEP	BY:	DESCRIPTION	PRIOR TR	1992	1993	1994	1995	1996	1997
							1	T			T	1	
162	N	AMELIA ISLAND	S	Б	R	SLUDGE STABILIZATION			60.000				
163	N	AMELIA ISLAND	W	E	G	WATER DISTRIBUTION IMPROVEMENTS			150.000			· .	
164	N	AMELIA ISLAND	E	E	G	WELL EXPANSION				160.000		160.000	
165	N	AMELIA ISLAND	W	E	0	WTP IMPROVEMENTS			30.000				
166	N	AMELIA ISLAND	s	E	G	WWTP EXPANSION				450.000	450.000	·····	
167	N	BEACON HILLS	W	o	0	AUTOMATIC DIALER & PHONE LINES		1.500	·····				
168	N	BEACON HILLS	s	E	R	BAR SCREEN			20,000	· · · · ·			
169	N	BEACON HILLS	W	8	G	BEACON WATER DISTRIBUTION STATE			86,000		· · · · · · · · · ·		
170	N	BEACON HILLS	W	B	G	BEACON WTP TANK				400.000			
171	N	BEACON HILLS	W	8	0	COBBLESTONE WTP CHEMICAL FEED U			75.000				
172	N	BEACON HILLS	W	E	G	COBBLESTONE WTP TANK & AERATOR			700.000				
173	N	BEACON HILLS	s	0	G	LIFT STATION IMPROVEMENTS			40.000	40.000	40.000	40.000	40.000
174	N	BEACON HILLS	s	E	G	OLD WWTP CONVERSION TO EQ TANK				50.000	50.000		
175	N	BEACON HILLS	s	B	0	WASTEWATER COLLECTION SYSTEM IM	150,750	169,000	/				
176	N	BEACON HILLS	s	B	Q	WASTEWATER COLLECTION SYSTEM IM			130,000		[
177	N	BEACON HILLS	S	0	ō	WASTEWATER ELECTRICAL EQUIPMENT			20,000		·····		
178	N	BEACON HILLS	W	B	0	WTP CHEMICAL FEED UPGRADE			75,000				
179	N	BEACON HILLS	W	B	G	WTP GENERATOR				100.000			
180	N	BEACON HILLS	s	B	R	WWTP DECHLORINATION	44,834	2.209					
181	N	BEACON HILLS	S	8	R	WWTP IMP.EFM FOR RECLAIMED WTRE	· · · · · · · · · · · · · · · · · · ·			1,500,000	1.500.000		
182	N	BEACON HILLS	S	B	R	WWTP - OUTFALL (ENG & CONST)	3.203	81.726					
183	N	DELTONA LAKES	s	в	l R	0.5 MGD WWTP EXPANSION		2.595.975					
184	N	DELTONA LAKES	W	B	G	0.5 MGD WWTP EXP.PH II					1,250,000	1.250.000	
185	N	DELTONA LAKES	W	8	G	2 MG STORAGE					900.000		
186	N	DELTONA LAKES	W	B	G	2 NEW WELLS				500,000			
187	N	DELTONA LAKES	W	B	G	3 NEW WELLS			750,000	······			
188	N	DELTONA LAKES	W	B	G	4 NEW WELLS IN 3 YEARS					333.333	333.333	333.333
109	N	DELTONA LAKES	S	B	G	COLLECTION SYSTEM EXPANSION			100,000	100.000	100,000	· 100.000	100.000
190	N	DELTONA LAKES	s	8	o	BFFL DISP STUDY CONSENT ORDER-M	26,203	21,326		·····			
191	N	DELTONA LAKES	W	E	G	EFFLUENT DISPOSAL AT FLORIDA PO					325.000	325.000	
192	N	DELTONA LAKES	W	0	G	FIRE HTDRANTS		5.000					
193	N	DELTONA LAKES	s	E		FLOW EQUALIZATION & IMPROVEMENT	193.008	386.220					
194	N	DELTONA LAKES	W	Б	G	FUTURE WWTP SITE				500,000			<u> </u>
195	N	DELTONA LAKES	s	Б	R	GOLF COURSE IMPROVEMENTS	530,763						
196	N	DELTONA LAKES	Ŵ	10	R	VOLUSIA CTY ROAD WIDENING		43.200					······
197	N	DELTONA LAKES	s	B	R	NASTEWATER SYSTEM CONNECTION-VO	167.508	326,211					
198	N	DELTONA LAKES	W	0	G	WATER DISTRIBUTION SYSTEM IMPRO			80.000	60,000	80.000	80.000	80,000
199	N	DELTONA LAKES	W	6	G	2 MG STORAGE			450,000	450,000			00,000

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PROJECTED CAPITAL IMPROVEMENTS

· 1992 - 1997

33,914,914 31,449,486 26,465,397 19,722,612 18,186,836 14,297,579 11,226,759

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	T T				011	DESCRIPTION		1992	1993	1994	1995	1996	1997
200	11	DELTONA LARES			0								
201	N	DELTONA LARES				WELL 725 INIERCOMMECT	200 (00		35,000	35,000			
202	+	DELTONA LARES				WELL FJU & IRON FILIERS	200,690	104,736				<u> </u>	
203	N N	DIVAL COINTY OFFT	CP	1			163,895	108,695					
204	11	DEVAL COUNTY OFFI	01	- `		ELOW PROPARTICULAL SAME FRE		7,000					
205	30	ENTERPRISE		۲, I		STOUT THE FOR I NO STOULOR THE		3,700	· · · · ·				
206	N	GENEVA LATE ESTAT			H b	STORI TODE FOR I HE STORAGE LAN		2,000					
207	N	REDMITS COME				THE EVERNET AN ON THE THEN WE	100.355						60,000
208	11	TNTERI ACHEN TAFF		4. *		DINE EXTENSION TO THE INTO PLT	120,339	24,500	·			· ·	-
200	N	KEYSTONE HETCHTS				MIP GENERATORS	16,000	40,000					
210	M	FERSIONE NETCHTE				BRIDGE CROSSING		10,895			·		
211	1	TENETONE NETCHTS				NEW PORP & MOTOR WELL # 2		9,600					
212	11	EFTSTONE RETORTS							50,000	50,000			
212		NORTH REGION			<u>ا</u>	WAIER MAIN REPLACEMENT	9,898	6,050					
214	1	OFFROOD				NEGOTIABLE REGULATORY REQUIREME		35,000					
714		DALM DODT	-	ا د		WELL ABANDONMENT AND STRUCTURE			4,265				
215		PALM PORT	<u>π</u>		<u>ب</u>	REPLACE HYDROPNEUMATIC TANK		5,000	5,000				
210	1 11	PALM VALLET		0	0	CONSTRUCT NEW PUMP BLDG		1,500					
217	N	PALM VALLSY		0	<u> </u>	REPLACE NORTH WIP HIDROPNEUMATI			10,000				
210	<u>N</u>	PALM VALLEY	W		<u>°</u>	WATER DISTRIBUTION REPLACEMENTS			75,000	75,000	75,000	75,000	75,000
219	N	PALM VALLEY	W	B	R	WATER DISTRIBUTION SYSTEM IMPRO	75,000	136,456					
220	N	PALM VALLEY		E	R	WTP IMPROVEMENTS	16,939	140,016					
221	N	POMONA PARK	W	B	Q	NEW WELL		50,000		75,000			
222	N	POMONA PARK	W	B	R	WTP GENERATORS		50,000					
223	N	POSTMASTER VILLAG	W.	0	R	EMERGENCE POWER GENERATOR			60,000				
224	N	POSTMASTER VILLAG	W	E	R	REPLACE 1 1/4" LINE WITH 6" CLA	27,120	6,076					
225	N	PUTNAM COUNTY OFF	W	0	R	CHLORINE ALARMS			3,500				
226	N	REMINGTON FOREST	W	0	Q	EMERGENCY DIALER SYSTEM/PHONE F			500				
227	N	REMINGTON FOREST	W	0	R	INSTALL NEW 6" PLANT SFFLUENT M		750					
228	N	RIVER GROVE	Ħ	0	R	SMERGENCY GENERATOR			50.000				
229	N	RIVER GROVE	W	B	G	NEW WELL				· · · · · · · · · · · · · · · · · · ·	75 000		
230	N	RIVER PARK	W	B	R	INTERCONNECT PLANTS 1-2-3	46.905	34.837					
231	N	RIVER PARK	s	E	R	SEWER PLANT	208.338	3,866					
232	N	RIVER PARK	W	B	R	WTP GENERATORS	25,000	10.738					
233	N	ST JOHN'S HIGHLAN	W	8	R	WTP GENERATOR							
234	N	SUGAR MILL C C	W	0	0	CATWALK AROUND WEIR		2 000					70,000
235	N	SUGAR MILL C C	W	Ō	R	CHLORING UNITS FOR PRE AND POST		2,000	4 340				
236	N	SUGAR MILL C C	S	0	0	LIFT STATION CONTROL PANEL		2 200	4,540		······································		
237	N	SUGAR MILL C C	s	В	R	WWTP GENERATOR		2,200	30 000				

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PROJECTED CAPITAL IMPROVEMENTS

1992 - 1997

33,914,914 31,449,486 26,465,397 19,722,612 18,186,836 14,297,579 11,226,759

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			<u>. P</u>	DBP	BT:	DESCRIPTION	PRIOR YR	1992	1993	1994	1995	1996	1997
2		ſ											
130		-		B	G	WTP GENERATOR				30,000			
239	<u> </u>	► —	<u> </u>	0	R	BLOWER CONTROLS (EXISTING)		5,000					
240	M		W	0	R	C12 SCALE & HOSES		2,500					
241	N	WOOD	<u> </u>	0	0	LAB EQUIPMENT		5,000					
242	N	WOODMER.	W	B	G	NEW WELLS					100,000	100,000	
243	N	WOODMERE	W	0	0	WATER CONTROL PANEL		5,000	20,000				
244	N	WOODMERE	S	B	R	WWTP DECHLORINATION	43,010	4,435					
245	S	BURNT STORE	W	B	G	HORIZONTAL WELL & WTP			1,200,000				
246	S	BURNT STORE	S	0	R	INSTALL BLOWER AND MOTORS IN ED			6,290				
247	S	BURNT STORE	S	B	G	LIFT STATION #4-20 & FORCE MAIN	1	68,619					
248	S	BURNT STORE	S	B	G	LIFT STATION \$6-22 & FORCE MAIN		119,718					
249	S	BURNT STORE	W	0	R	MONITORING OF R.O. PLANT		750					
250	S	BURNT STORE	W	0	R	REFURBISH WASTEWATER PLANT		2,692					
251	S	BURNT STORE	W	B	G	R.O. PLANT EXPANSION	502,118	250,000		,			
252	S	BURNT STORE	S	B	R	SLUDGE STABILIZATION			84.500				
253	S	BURNT STORE	S	0	R	VALVE INSTALLATION		1.856					
254	5	COVERED BRIDGE (L	W	0	R	REPLACE CHLORINE SCALES AT WATE		1.102		· · · · · ·			
255	S	COVERED BRIDGE (L	GP	0	0	UPGRADE WATER PLANT/REPLACE LAD		836					
256	S	DEEP CREEK	S	0	R	LIFT STATION MONITORING-DEEP CR			2.000	3,000	3.000	3.000	3,000
257	S	DEEP CREEK	S	0	R	LIFT STATION UPGRADING		12,410	14,000	14.000	14.000	14.000	14.000
258	5	DEEP CREEK	S	0	R	REHAB OF COLLECTIONS LINES AND		12.200	12.200	12.200	12.200	12.200	12,200
259	S	DEEP CREEK	S	0	0	ROAD RESURFACING-RAISE MANHOLES		19,767					
260	S	DEEP CREEK	W	B	G	WATER DIST. SYS. IMPRV.				300.000	300.000	300 000	300 000
261	S	LEHIGH UTILITIES	W	B	R	AMMONIATION SYSTEM		100.000					
262	S	LEHIGH UTILITIES	S	В	R	EFFLUENT DISPOSAL TO GOLP COURS		80.000	250,000	250.000			·
263	S	LEHIGH UTILITIES	S	B	R	SEWER PLANT REHABILITATION	238,753	841.686					
264	S	LENIGH UTILITIES	W	8	G	WATER LINE EXTENSION (DENSITY A	220 000	942 019	200 000	200 000	200 000	200 000	. 200 000
265	S	LENIGH ITTILITIES	W		- G	WATER MAIN EXTENSION		550 000	200,000				200,000
266	s	MARCO ISLAND	s		R	1.0 MG ADDITIONAL TREATMENT	3,709,061	165 732					
267	s	MARCO ISLAND	w w			24" RAW WATER TRANSMISSION LINE	1 000 118	939 714					
268	6	MARCO ISLAND		ᡰ᠊ᢜ		1 CHENICAL DIMOS	1,055,550	5 400					
769	-	MARCO ISLAND		۲ř		A O MCD P O PTANT	11 477 746	5,400					
203	1-2-	MARCO ISLAND	-			ADD'T DEWATEDING PORTEMENT	11,437,740	4,000,000	116 000				
270	1	MARCO ISLAND	3	ا ہُ		ADD D DEWAIERING EQUIPMENT			225,000				
271	3	MARCO ISLAND	<u> </u>	<u>۲</u>		AIR CONDITIONER		2,520	-		<u> </u>		
272	5	MARCO ISLAND	3		1	PET UENT BINE CROCCING	80,000	200,000	1,000,000	-			
213	1-2	MARCO ISLAND		+-	- K	BIFLUENT RIVER CRUSSING	610,259	6,990					
2/4	13	MARCO ISLAND	6	+-	10	PIRE RETARDENT CLOTHING		700					
275	l s	MARCO ISLAND	l e	10	10	IGAS TANKS		13,200					

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PROJECTED CAPITAL IMPROVEMENTS

1**992 - 1**997

33,914,914 31,449,486 26,465,397 19,722,612 18,186,836 14,297,579 11,226,759

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LTN	REG	PLANT NAME	TTP	DEP	BY :	DESCRIPTION	PRIOR TR	1992	1993	1994	1995	1996	1997
276	S	MARCO ISLAND	S	0	0	GENERAL IMPROVEMENTS WW OPER BL		16,722					
277	S	MARCO ISLAND	S	6	R	INCREASE AERATION CAPACITY		154,999					
278	s	MARCO ISLAND	S	6	R	LIME STABILIZATION OF SLUDGE			75,000				
279	S	MARCO ISLAND	W	0	R	MECHANICAL INTEGRITY TEST							70,000
280	5	MARCO ISLAND	W	Б	G	NEW 2.0 MG STORAGE TANK @ R.O.				1,050,000			
281	s	MARCO ISLAND	W	8	Q	NEW CONCENTRATE LINE FROM RO WT			·800,000				
282	S	MARCO ISLAND	W	B	G	NEW FILTERS FOR LIME STAB. WTP,				600,000	600,000		
283	s	MARCO ISLAND	W	0	0	NEW MEMBRANES FOR RO WTP (50%)					300,000	300,000	
284	s	MARCO ISLAND	s	B	R	OFF-SITE PERCOLATION PONDS	500,000	4,700,000		1,000,000			
285	<u>-</u>	MARCO ISLAND	W	B	G	REBUILD FILTERS			150,000				
286	s	MARCO ISLAND	W	0	R	REFURBISH 2 MOTNO SLUDGE PUMPS		16,600					
287	s	MARCO ISLAND	W	6	R	REFURBISH TWO LIME SLUDGE TRANS		5,400					
288	s	MARCO ISLAND	W	0	R	REFURBISH TWO LIME SLUDGE VACUU		8,600					
289		MARCO ISLAND	s	в	R	REHAB LS'S 16A. 7. 48 & YARD ST			120,000				
290	s	MARCO ISLAND	s	B	0	REPLACE CATWALKS			180.000				·
291	s	MARCO ISLAND	W	B	ō	REPLACE FITTINGS IN OLD BLEND L			150,000				
297	1 5	MARCO ISLAND	G		10	REPLACEMENT OF ELECTRICAL PANEL		2,100			· · · · · · · · · · · · · · · · · · ·		
203	1,5	MARCO ISLAND			8	SCRUBBER FOR E.O. TANK	1.115.609	59,861	•				
294	5	MARCO ISLAND	W	E	R	STAND BY POWER FOR H.S. PUMMPS			75.000				
295	6	MARCO ISLAND	W		1 0	TESTING & REFURBISHING OF WATER		10.000				· ·	
206		MARCO ISLAND				TWO LIGHTNING MIXERS			3.700				
290	1 0	NARCO ISLAND				IDERADE REFLIENT LINE COLLIER &			40.000				
29	1 -	MARCO ISLAND	Ť		┼╴	WATER METER REPLACEMENTS		39,113					
290		MARCO ISLAND		Ť		WWTP PRETREATMENT STRUCTURE	200,000	350,542					
200	+	MARCO SHORES	1		tâ	ADD FTLTERS				375,000			
1300	1-2	MARCO SHORES		+	┼╬	CHLOPINE SCALES	<u> </u>	2,400					
1301	+	MARCO SHORES		<u>ا</u>		CT FAN ST HDCR FROM DONDS			40.000				•
302		MARCO SHORES	1 -	1.	1	WERE BE CANED			10,000				
303		MARCO SHORES	1-	┼╌	+-	NEW POILT TRATICAL TANK		┨═╌╌╴╴┨	120,000				
304		MARCO SHORES		- <u> </u> - <u></u>	+			·} ···	120,000				
30:		MARCO SHORES		14		NEW HIDRO LANK			20,000			· · · · · · · · · · · · · · · · · · ·	
306		MARCO SHORES	5			NEW RETORN PUMP			4,000		·		
301	<u>s</u>	MARCO SHORES	S		19	PUMPS FOR LS 27A & 27b			30,000				
301		MARCO SHORES		- <u> </u> °	4	REBUILD FILTERS			50,000	··			· · · · · · · · · · · · · · · · · · ·
301	2	MARCO SHORES	S	- 8	-	REFIPS SLUDGE LINES			20,000				
310) 5	MARCO SHORES		<u> </u>	1	SULFURIC ACID FOR L.I. IND.			7,000				
31:	L S	MARCO SHORES		0	-	TWO CHEMICAL PUMPS		3,600					
312	2 5	VENICE GARDENS	W	B	1.	ADD WELL #8				150,000			
31:	3 5	S VENICE GARDENS	W	0		INSTALL VALVES ON PRESSURE TANK		1,630					

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PROJECTED CAPITAL IMPROVEMENTS

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LIN REG	PLANT NAME	TTP	DEP	BY :	DESCRIPTION	PRIOR YR	1992	1993	1994	1995	1996	1997
	·											<u> </u>
314 S	VENICE GARDENS	W	B	R	INTERCONNECT PLANTATION			300,000				
315 S	VENICE GARDENS	S	0	R	LIFT STATION MONITORING EQUIPME			14,000				
316 ,S	VENICE GARDENS	W	0	R	PLOGGING AND ABANDORMENT OF WEL			20,800				
317 S	VENICE GARDENS	S	0	R	REHAB OF COLLECTION LINES		91,950	50,000	50,000	50,000	50,000	50,000
318 S	VENICE GARDENS	M	B	R	REPLACE H.S. PUMP BUILDING & PI			650,000				
319 S	VENICE GARDENS	W	0	Q	REPLACE MEMBRANES				100,000	100,000	100,000	100.000
320 S	VENICE GARDENS	S	B	R	SLUDGE STABILIZATION			84,500				
321 S	VENICE GARDENS	S	0	R	UPGRADING OF LIFT STATIONS		8,848	12,000	14,000	14,000	14,000	14.000
322 S	VENICE GARDENS	S	B	R	WWTP CLASS I RELIABILITY IMPROV	270,000	4,600,000					
323 S	VENICE GARDENS	S	Б	R	WWTP 12 - 0.75 MGD & FILTERS	031,179	1,578,154					
324 S	VENICE GARDENS R.	W	0	0	DBEPEN R.O. WELLS #2 5 #3		6,900					
325 S	VENICE GARDENS R.	W	0	R	MECHANICAL INTEGREITY TEST					1	70.000	
326 S	VENICE GARDENS (R	W	B	R	REPLACE WTP W/R.O. PLANT	4,013,296	80,000					
327 W	APACHE SHORES	W	В	R	UP GRADE BUILDING, ADD CHLORINE			30,000				
328 W	APACHE SHORES	W	B	G	UPGRADE WATER LINES - DISTRIBUT					10,000		
329 W	APACHE SHORES	S	8	G	WASTEWATER TREATMENT PLANT UPGR	75,727	11,643					
330 W	CITRUS COUNTY OFF	GP	0	0	AIR EXCHANGER/BLOWER-HARNESS		1,100					
331 W	CITRUS COUNTY OFF	GP	0	R	CHLORINATORS-BJECTORS		0	4,740				
332 W	CITRUS COUNTY OFF	W	0	R	CHLORINE CYLINDER REPAIR KITS			1,260				
333 W	CITRUS SPRINGS	W	8	G	1.0 MGD STORAGE TANK/H. SERVICE						550,000	550,000
334 W	CITRUS SPRINGS	S	0	Q	AERATOR REPAIR (CHANGE TO FLOATI					35,000		
335 W	CITRUS SPRINGS	W	0	R	CHLORINATORS - EJECTORS			4,740				
336 W	CITRUS SPRINGS	W	0	R	CHLORINE ALARM			700				
337 W	CITRUS SPRINGS	S	0	Q	CLARIFIER REPAIR				8,000			
338 W	CITRUS SPRINGS	W	B	G	GENERATOR/WELL #3			35,000				
339 W	CITRUS SPRINGS	W	Б	G	INTERCONNECT CITRUS SPRINGS/PIN					125.000		
340 W	CITRUS SPRINGS	W	B	G	MAIN LINE EXTENSIONS			200,000	200,000	200,000	200.000	200.000
341 ₩	CITRUS SPRINGS	S	B	G	MAINLINE EXTENSIONS			100.000	100.000	100.000	100.000	100.000
342 W	CITRUS SPRINGS	W	B	G	NEW WELL		í – – – – – – – – – – – – – – – – – – –			250,000		,
343 W	CITRUS SPRINGS	s	0	Q	UPGRADE LIFT STATION 2/A		· · · · · · · · · · · · · · · · · · ·			25.000		
344 W	CITRUS SPRINGS	W	E	G	WELL #2 ADDITION			20,000				
345 W	CITRUS SPRINGS	S	B	Q	WWTP UPGRADE INCLUDING PAINT			60.000	60.000	60.000		
346 W	CRYSTAL RIVER	W	18	R	BACKWASH BEDS (IRON FILTERS)			2,000				
347 W	CRYSTAL RIVER	W	в	Q	DISTRIBUTION SYSTEM IMPROVEMENT			20,000				
348 W	CRISTAL RIVER	W	8	R	NEW WELL			30,000				
349 1	GIBSONIA ESTATES	W	E	R	INTERCON N/POLK CNTY SEE LK.GI		f					
350 W												
	GOLDEN TERRACE	W	E	R	INTERCONNECT W/CITT			20.000	f			

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PROJECTED CAPITAL IMPROVEMENTS

.

´ 1992 - 1997

33,914,914 31,449,486 26,465,397 19,722,612 18,186,836 14,297,579 11,226,759

					REQ								
LIN	REG	PLANT NAME	TTP	DBP	BT :	DESCRIPTION	PRIOR TR	1992	1993	1994	1995	1996	1997
352	W	HOLIDAY HAVEN	5	0	0	BLONER & MOTOR		3,000					
353	W	HOLIDAY HAVEN	S	B	R	SEWAGE TREATMENT PLANT MODIFICA	146,373	269,037					
354	Ħ	HOLIDAY HAVEN	S	0	0	STORAGE SHED/FENCING		1,250					
355,	Ϋ́.	JUNGLE DEN	S	0	R	PRIVACY FENCE		1,500					
356	¥	JUNGLE DEN	S	B	G	WWTP_EXPANSION/PENDING_SALE			80,000				
357	×	LAKE GIBSON	¥	8	R	COUNTY INTERCONNECT		242,590	•				
358	W	LARE GIBSON	5	B	R	EFFLUENT DISPOSAL UPGRADE/CLEAR			30,000				
359	W	LAKE GIBSON	S	B	0	MODIFY AND UPGARDE LIFT STATION				30,000			
360	W	LAKE GIBSON	S	B	R	WWTP EXPANSION IMPROVEMENTS	383,394	143,269					
361	×	MARION COUNTY OFF	GP	0	0	BLANKET_PURCHASES		9,600					
362	M	MARION COUNTY OFF	S	0	0	BLOW IN VENTILATION UNIT		2,000					
363	W	MARION COUNTY OFF	Ħ	0	R	CHLORINE ALARMS(4)			1,400				
364	Ħ	MARION COUNTY OFF	GP	0	R	CL2 REPAIR KITS/SCALES			4,140				
365	W	MARION COUNTY OFF	S	0	R	LAB_BQUIPMENT			5,000				
366	W	MARION COUNTY OFP	S	0	Q	SEWAGE TRASH PUMP		2,000					
367	W	MARION OAKS	W	0	G	FIRE HTDRANTS		15,625	16,000	16,000	16,000	16,000	16,000
368	H	MARION OAKS	S	B	G	NEW LIFT STATION			30,000				
369	W	MARION OARS	W	B	G	NEW WELL						125,000	125,000
370	M	MARION OARS	W	B	G	NEW WELL			125,000	125,000			
371	W	MARION OAKS	S	8	G	SEWER MAIN EXTENSIONS			100,000	100,000	100,000	100,000	100,000
372	M	MARION OAKS	W	B	G	WATER MAIN EXTENSIONS			350,000	350,000	350,000	350,000	350,000
373	W	MARION OAKS	S	0	0	WEMCO_SLUDGE_PUMP		4,000					
374	W	MARION OAKS	S	B	G	WWTP EXPANSION			250,000	250,000			
375	W	OAK FOREST	W	B	Q	WTP IMPROVEMENTS/UPGRADE DIST.S				.25,000			
376	W	OAK FOREST .	Ħ	B	Q	WTP UPGRADE			80,000				
377	W	PALM TERRACE	W	B	R	EXPANDED DIGESTER (WWTP)			15,000	1			
378	W	PALM TERRACE	S	0	.0	LIFT STATION IMPROVEMENT		9,964					•
379	W	PALM TERRACE	W	0	Q	PHONE DIALER		1	2,000				
380	W	PALM TERRACE	W	0	Q	REPLACEMENT GATE VALUES 6" & 4"	1	5,809	1				
381	W	PINE RIDGE	M	0	G	FIRE HYDRANTS		16,250	16,000	16,000	16,000	16,000	16,000
382	W	PINE RIDGE	W	B	G	HYDRAULIC ANALYSIS/LOOP SYSTEM			120,000				
383	W	PINE RIDGE	W	E	G	NEW WELL					125,000	125.000	
384	W	PINE RIDGE	W	B	G	REDRILL WELL #3/INTERCONNECT W/			200,000				
385	W	PINE RIDGE	W	B	G	WATER MAIN EXTENSIONS			300,000	300,000	300,000	300,000	300.000
386	W	PINE RIDGE	W	B	G	WELL 12, AUX POWER				35,000			
387	W	PINE RIDGE	W	B	R	WELL #4/PRESSURE TANK/CL2 ELEC/	229,700	15,102					• • • • •
388	W	POINT O'WOODS	W	В	R	WTP IRON FILTERS	34,293	187,575					
389	W	POINT O'WOODS	S	8	R	WWTP MODIFICATION/BACKWASH FACI			12,000				

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PROJECTED CAPITAL IMPROVEMENTS 1992 - 1997

33,914,914 31,449,486 26,465,397 19,722,612 18,186,836 14,297,579 11,226,759

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LIN	REG	PLANT NAME	TTP	DEP	BT :	DESCRIPTION	PRIOR YR	1992	1993	1994	1995	1996	1997
390	Ħ	ROLLING GREEN	×.	B	R	ABANDON TWO 4" WELLS			12,000				
391	W	ROLLING GREEN	W	Б	Q	WATER MAIN UPGRADE				10,000		_	
392	.W	ROSEMONT	W	B	Q	WATER MAIN UPGRADE				5,000			
393	W	ROSEMONT	W	B	R	WATER TREATMENT PLANT IMPROV. 5	245,260	21,070					
394	¥	SALT SPRINGS	S	B	R	REROUTE WW FORCE MAIN TO PLANT			4,000				
395	W	SALT SPRINGS	S	B	R	UPGRADE GRAVITY SEWER MAIN			20,000				
396	W	SALT SPRINGS	S	B	R	UPGRADE LIFT STATION			25,000				
397	W	SALT SPRINGS	S	B	R	WASTEWATER PLANT		115,000					
398	W	SBABOARD	S	в	Q	I & I INVESTIGATION					50,000		
399	M	SEABOARD	W	B	R	INTERCONNECT W/CITY OF TAMPA			280,000				
400	W	SEABOARD	S	0	Q	LIFT STATION 4 & 5 UPGRADE		44,000					
401	W	SEABOARD	5/W	B	Q	WATER MAIN, FORCE MAIN RELOCATI			80,000	•			
402	W	SEABOARD	5	в	R	WWTP IMPROVEMENTS	388,525	430,955	2,000,000				
403	W	SPRING HILL	W	B	0	1 UTILITY SITE				500,000		•	
404	W	SPRING HILL	W	B	G	2 - 1MG GST						900,000	900,000
405	W	SPRING HILL	W	0	R	CHLORINATOR TANK UNITS (REPLACE		3,600					
406	W	SPRING HILL	s	0	Q	LIFT STATION 25-F REHAB		8,500					
407	W	SPRING HILL	W	B	G	MARINER BLVD. UTILITY RELOCATIO	692,424	9,502					
408	W	SPRING HILL	W	B	G	NEW WELL #30 & #31				250,000			
409	W	SPRING HILL	W	B	G	NEW WELL #32 & #33			- · · ·			250,000	
410	W	SPRING HILL	G	0	To	PROPANE TANKS & CYLINDERS		4,000					
411	W	SPRING HILL	GP	0	d	SAFETY EQUIPMENT		1,500		-			
412	W	SPRING HILL	W	B	R	SPRING HILL DRIVE EXTENSION		186,952					
413	W	SPRING HILL	W	B	q	WALLS & PIPING PROJECT AT WWTP	182,500	3,714			·		
414	W	SPRING HILL	W	B	G	WELL #27	309,559	13,048					
415	W	SPRING HILL	W	B	6	WELL #28	245,478	12,830			I		
416	W	SPRING HILL	W	B	6	WELL #29	272,991	10,925					•
417	W	SPRING HILL	W	8	T	WTF IMPROVEMENTS			30,000				
418	W	SPRING HILL	S	B	F	WWTP EFFLUENT DISPOSAL IMPROVEM		510,920					
419	W I	SPRING HILL	S	B	7	WWTP EFFLUENT REUSE/SLUDGE STAB			1,500,000				
420	N	SUGAR MILL WOODS	W	E	F	I IMG GST					550,000	550,000	
421	N N	SUGAR MILL WOODS	W	0	1,	CHLORINE ALARMS			1,050		1. A.		L
42		SUGAR MILL WOODS	GF	2 0		CL2 A REPAIR KIT			1,260				<u> </u>
42		SUGAR MILL WOODS	GI	0 0		LABORATORY EQUIPMENT		4,000					
42	1 1	SUGAR MILL WOODS	S	0		LIFT STATION UPGRADE		14,000					
42	5 1	SUGAR MILL WOODS	s	0		LIFT STATION UPGRADE			25,000				
42	5 1	SUGAR MILL WOODS	s	0		MONITORING WELL PUMPS		3,670	•				
42	77	SUGAR MILL WOODS	H	В		S NEW WATER PLANT/2 WELLS/PIPING	858,236	17,740	· .				

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LIN	RBG	PLANT NAME	TYP	DEP	BT :	DESCRIPTION	PRIOR YR	1992	1993	1994	1995	1996	1997
												1	
428	N	SUGAR MILL WOODS	.W	B	G	NEW WELL (EACH YR)			250,000		250,000		250,000
429	W	SUGAR MILL WOODS	S	B	G	WWTP EXPANSION (.5 MGD)/DISPOSA				400,000	400,000		
430	M	SUGAR MILL WOODS	5	B	Q	WWTP FENCE					40,000		
431	Ň	SUNNY HILLS	GP	0	R	BLANKET PURCHASES			2,800		·		
432	W	SUNNY HILLS	W	0	R	CHLORINATOR			1,350				
433	Ħ	SUNNY HILLS	W	0	R	CHLORINE LOSS ALARMS			1,050				
434	N	SUNNY HILLS	¥	B	R	HYDRO TANK WELL 44		15,950					
435	W	SUNNY HILLS	W	0	Q	TRASH_PUMP		950					
436	×	SUNNY HILLS	S	B	G	WWTP MODIFICATIONS						100,000	
437	Ħ	VALRICO HILLS	W	B	G	WTP IMPROVEMENTS			100,000				
438	W	VALRICO HILLS	S	B	G	WWTP IMPROVEMENTS/MODIFICATIONS					80,000		
439	M	WEST REGION ·		0	R	NEGOTIABLE REGULATORY REQUIREME		12,000					
440	M	ZEPHYR SHORES	W	B	R	ABANDON WELL 2			10,000				
441	W	ZEPHTR SHORES	S	B	G	WWTP IMPROVEMENTS	108,473	88,499					

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EMORANDUM

January 7, 1991

Bert Phillips Donnie Crandell Chuck Wood Karla Teasley Roula Tsoukaras Woody Hendricks John Losch Priscilla Wampler Dick Ausman Forrest Luces Charles Sweett Randi Kaplen Rafael Terfero Joe Mack Robert Regalaco Aaron Perlowich

Chris Carr

1992 to 1995 Capital Budget

Elease find attached a copy of the proposed 1998 to 1985 Capital Budget. Amounts marked with an asterial to septement dollars which have been compounded at scannal increase. Amounts marked with a pound sign () are unanticipated projects and do not include a CS increase. This proposed budget does not include any carryover from the current 1991 budget.

Ruch Ecedit for the compilation of this report goes to Los Nack and John Losch for the tremendous amount of effective Made to order to get this report done in the short **199** allotsed.

Flease let me know if these are any questions of companys

Dhris Darr Millapiter Projects Analyst

DATE

FROM:

SUBJECT :

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PLT/CC PLMT/COST CONT RAM	U/S/G BESCRIPTION	1791	1113	1191	199	191	MIE	1912	1195	RIJE	1112	
L STATEMENT	6 LF 645	140,000	105,944 +	110,750 #	113,763 +	1			;			! !
L STATERINE	GP TOOLS & EQUIPMENT	254,800	262,300 *	215,625 1	211, (N +	1			1			
1 STATEBINE	GP DENICLES	250, DM	250 , MO	54,000	50, MI	1			1			
l statenine	N/S WEFENS	544, DM	525,440 *	60,000	70, PM	1			1			
) STATEDINE	U/S CHAR ESTEVIORS	50 0 , pro	525,400 P	SSL,250 +	578, BIS +	1			1			
3 STAFEDIDE	T/S FELITE RELOCATIONS	1, 509,049	2,00 0,0 00	2,398,000 P	2,205,ME +	1			;			
1986 CHI SPIJP DEDGE/MAL BARS	A/1 UTIL PELOCATIONS/WPGRADES/HEPERS/EXTENSION	\$ 1,500,Ma	1,500,000	1,500,000	1,58 1,011	1			:			1
3 SINTENINE	u/s utilier unstades	1,500,100	2,909,800	1.100,N0 +	1,205,001 1	1			:			4 7
L STATEFINE	U/S UNAPTECIPATED COPITAL EXPROSEMENTS			3,000,010 J	1,001,000 £	ł			! .			
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JAY CUTE COMBON	1 UIP HEMMAL		10,009			1 8	1.14	1 1 5	1			
TOP BUEINATER MIDULE	E UIP PENDYUS		14,00)			124	1.901	L 111	1			
144 UNIX SHORES/STREELST	S EFFLUENT BISPOSAL/0.5 UGD HUTP/LAND	SH,000], \$49,898			1 2,719	10,361	3,512	2,506	1.50%	3,005	
THE NULLY SHOPES/SUBCREAT	1 UP37 (NPROVENCES		149,908			1			:			REMAN WETP
144 UNIX SHOKES/STREEST	1 UTP INPRIMENENSDNEVERSTEP SOCRES	25,000	45,000			;			:			HERATOR REFUNDISMENT, GUIT, REMOVE OLD PLANT & MISC.
JTE HOLTBAY METGHTS						1 12	0.04	52	1			
122 VELVNONT						1 119	1.Ht	119	:			
115 CONVER MA						!			1 4	70.40L	- 44	
126 H & H MICELOTES						1			211	4.90L	213	
THE PART CHEMIC OFFICE						1			İ			
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213 SHIMR CHEEN	Ø UTP JUPROVEDENTS	J9, M 0				1 1	5.01	: Н	:			INEPLACE PEPING, COLONENE BOOK, DENAT XANNO DARD & HISC
714 ONNISE KILL	E ULP INPROVENERTS	10,400				; 175	1.171	111	1			REMAD/REPLACE WYDED TANK & HISC
30) SENIMOLE COMIT OFFICE						•						
313 LAKE NAMPOET	# UTP THPROVENENTS		30,000			1 11	3.371	- 317				LEMONT GUST, CHEORINE & ALSE, AERANON
328 FEAN PIRL	# #EP DOPROVENENTS		30,090			1 11	2.00	111	1			MEMAB GUST & HJSC
325 CAFE UNGHINEY	E UTP ENPROPENENTS			28,0M		1 13	3.HH	- H	:			FREMAR GUST & HOURE THIS
331 IMMINUT ICHES	B WIP INPROVENENTS	3,000				1 10	U.DR	19,	:			SADAMOCH VEEL & WESC
330 WEREATTIL HAMOL	1 UT2 THPDOVENEUT1		38,668	38,908		405	1.13	ा स	1 21	6.9 M	n	ACINI GISI, INDIA BAIK
337 MPPLE VALLET/SAILLAND	E UEF THPROFENERTS	3 0, 900				1 11	1.63	1,155	; 16	(, IM	- 165	
934 ormen kalls	4 BDF INPROVENENDS		15,0M	38,000		219	9. 1 01	241	1			RELEAS SUBT & BYORD TANK
335 CMR (4)TA	O DADER TREATHEND PLAND		152,278			1 210	11.03	888	115	5,001	152	
335 CHELOUTA	U PRF INFRCHENEPES			X,00)		1						HISC UPGRADES
334 DOL MAY BANDE	1 DIA ENDIDENERVS		10,029	14,400		0	0, (d)	: 1)				HISC OPERADES
SHE FLE CER CORD PAILS									i s	1, H1	3	
NOV PHILAM CONNEY OFFICE									i			
434 NESNIJII COME	V UTP IMPROVEMENTS		5,000		13,000	1 115	1.0	191	1			SCONVELT GUIT TO CHEOREDE STOMAGE, DEPENCE DOOR, MISC
439 REPER FAME	S TUIP SAPROVENENTS	25,769	5,001			143	1.001	313	111	1.191	120	INTP FILTERS & PIPTING
439 BIYER PARE	# UTP IMPROVENENTS		25.000									SAEFINGISH HYDD TANK & MISC
AND PALM PORT	S BUID ENPROTENENTS	25.010				11	6.631	tói	E E	1. 77L	táe	LOEN GLOWER, REPLACE ALOFENSERS, MISC
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ANT RITLE GROVE	1 DIP INPROVENENDS	N. M1				173	5 (1)	131				THEN WELL, ANY GENERATION, DISC.
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ADE SE JOIN'S BLEM MES							6.61	11				tires a surgeounder -
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Lawton Chiles Governor Southwest District 3804 Coconut Palm Drive Tampa, Florida 33619

Virginia B. Wetherell Secretary

V.2: XI - Comment

March 21, 1995

Mr. Rafael A. Terrero, P.E., Manager of Environmental Services Southern States Utilities, Inc. 1000 Color Place Apopka, Florida 32703 Citrus County Sugarmill Woods WWTP GMS ID No. 4009P05400

Modification of Conditions Permit No. DC09-242735

Dear Mr. Terrero:

The Department received your request, application 265903, for a modification of the permit conditions of the above construction permit originally issued on June 23, 1994. The conditions are hereby changed as follows:

<u>Condition</u>	From	To
Expiration Date	April 1, 1995	December 31, 1995

This permit modification, DC09-242735A, authorizing the above changes must be attached to your original permit and, together with any other preceding modification(s), becomes a part of that permit.

Richard D. Garrity, / Ph.D. Director of District Management Southwest District

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c: Citrus County Public Health Unit Phyllis James, DEP Robert Lear, DEP

Received

MAR 2 3 1995

Environmental Services

Protect: Conserve and Manage Fiolida's Environment and Natural Resource:

Printed on recycled poper



Florida Department of Environmental Protection

Lawton Chiles Governor Southwest District 3804 Coconut Palm Drive Tampa. Florida 33619 813-744-6100

Virginia B. Wetherell Secretary . **.** .

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PERMITTEE: Southern States Utilities, Inc. 1000 Color Place Apopka, FL 32703

Attention: Mr. Rafael A. Terrero, P.E. Environmental Service Manager PERMIT/CERTIFICATION GMS ID No: 4009P05400 Permit No: DC09-242735 Date of Issue: 06/23/94 Expiration Date: 04/01/95 County: Citrus Lat/Long: 28°43'05" 82°30'50" Sec/Town/Range: 28/205/18E Project: Sugarmill Woods WWTP Expansion Processor: A.D. McLaurin

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rule(s) 17-3, 17-4, 17-300, 17-500 and 17-600 Series. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents, attached thereto or on file with the Department and made a part thereof and specifically described as follows:

Expansion of a 0.500 MGD Type I oxidation ditch by re-rating the existing oxidation ditch to a permitted capacity of 0.700 MGD and the addition of a new clarifier, dual chlorine contact chambers and sludge processing and handling system with chlorinated effluent to a 1.5 mg holding pond and then to a 53.35 acre restricted access spray irrigation site.

Location: South of C.R. 480 and North of U.S. 98 in Citrus County, Florida

Replaces Permit No: N/A Expired: N/A

SPECIFIC CONDITIONS:

- 1. Drawings, plans, documents or specifications submitted by the permittee, not attached hereto, but retained on file at the Southwest District Office, are made a part hereof.
- 2. The zone of discharge boundary shall extend horizontally 100 feet from the site boundary or to the installation's property boundary, whichever is less, and vertically to the base of the shallow water table aquifer. (Rule 17-522.410, F.A.C.)

Page 1 of 9

1. 1. A. A.

SPECIFIC CONDITIONS: (cont'd)

015 3. The water quality standards for Class G-II ground water shall not (Rule 17-520.400, Rule 17-520.420, F.A.C.)

4. In accordance with Chapter 17-699, F.A.C., the required certified operator on site time is: A Class C or higher operator for 6 hours/ day for 5 days/ week and one visit on each weekend day.

5. The discharge from the chlorine contact chamber shall be sampled 0^{0} in accordance with Chapter 17-601, F.A.C. and shall meet the following limitations:

Parameter	Unit	Min- <u>imum</u>	Maximum	Type. Sample	Frequency
Permitted Capac	ity				
(flow)	ົກກຽວໄ	.000	0.700 3MADF	RFM&T	Daily,5/wk
ĥa	STD UN	6.00	8.50	grab	Daily,5/wk
CBODs*4 Total	mq/L	0	20 annual avg.	8HR-fpc	Weekly
Suspended Soli	ds*		30 monthly avg. 45 weekly avg.	-	
			60 any one sample	5	
Nitrate (as N)	mg/L	0	12	grab	Weekly
C1 ₂	mg/L	0.5	-	grab	Daily,5/wk
Fecal coliform	<i>≢</i> /100	0	200 annual avg. 200 monthly avg.	grab	Weekly

3MADF - Three month average daily flow RFM&T - Recording Flowmeter & Totalizer 8HR-fpc - 8 Hour Flow proportioned composite sample *Influent shall be monitored and reported weekly [Rule 17-601.300(1), F.A.C.] The results shall be reported weekly on DEP Form 17-601.900(1).

OPS

6. The sludge shall be sampled after final treatment in accordance with Rule 17-640.700(1)(b) F.A.C. but prior to land application for the parameters listed below every three (3) months. A copy of the analyses shall be submitted with the monthly operation report for the following parameters:

Total Nitrogen - 🏅	dry weight
Total Phosphorus - 💲	dry weight
Total Potassium - 🕇	dry weight
Cadmium - mg/kg	dry weight
Copper - mg/kg	dry weight
Lead - mg/kg	dry weight
Nickel- mg/kg	dry weight
Zinc - mg/kg	dry weight
pH - standard	units
Total Solids - %	

Page 2 of 9

SPECIFIC CONDITIONS: (cont'd)

- 7. Direct discharge from the holding pond or restricted access spray irrigation site to area surface waters is not allowed. Surface discharge shall be considered a violation of this permit and the permittee shall immediately report any such discharge to the SW District Office of the Department of Environmental Protection.
- 8. If historical or archaeological artifacts, such as Indian cances, po are discovered at any time within the project site, the permittee shall notify the DEP Southwest District office and the Bureau of Historic Preservation, Division of Archives, History and Records Management, R.A. Gray Building, Tallahassee, Florida 32301, telephone number (904) 487-2073.
- p_{5} 9. The domestic wastewater residuals for this facility are classified as stabilization Class B.
- a. The domestic wastewater residuals shall be land applied only at p_{2}^{\prime} Cason Property, lat - 28°44′50"N, long - 82°27′50"W, S/R/T - 23 & 24/ 20S/18E on 160 of 720 Acres (as identified in the Agricultural Use Plan or Dedicated Site Plan submitted with the application).
- b. Annual update reports, summaries, and revised Agricultural Use Plans are due not later than one year from the issuance of the permit. The reports shall be submitted annually thereafter, and not later than this anniversary date to the Department.
- c. The permittee shall comply with all provisions of Chapter 17-640, 5 F.A.C. and shall report any non-compliance or changes from the approved site plan to the Department.
- 10. In accordance with Rule 17-601.400(3), F.A.C., any laboratory 5 test required by this permit shall be performed by a laboratory that has been certified by DHRS in accordance with Rule 10D41.100-113, F.A.C., to perform the test. On-site tests for dissolved oxygen, pH, and total chlorine residual shall be performed by a laboratory certified to test for dissolved oxygen, pH and total chlorine residual or under the direction of an operator certified in accordance with Chapter 61E12-41, F.A.C.
- 11. In accordance with Rule 17-160.300(6), F.A.C., sample collection ball be performed by following the protocols outlined in "DEP Standard Operating Procedures for Laboratory Operations and Sample Collection Activities" (DEP-QA-001/92). Alternatively, sample collection may be performed by an organization which has an approved Comprehensive Quality Assurance Plan (CompQAP) on file with DEP. This CompQAP shall be approved for collection of samples from the required matrices and for the required tests.

Page 3 of 9

1.5.4

SPECIFIC CONDITIONS: (cont'd)

12. Upon completion of construction and prior to placing the treatment plant or effluent reuse/disposal system into operation for any purpose other than testing for leaks and equipment operation, the permittee shall submit a Notification That a Domestic Wastewater Facility Will Be Placed Into Operation (DEP Form 17-600.910(3)) and either a Completion of Construction Notification for a Reuse/Land Application System (DEP Form 17-610.910(6)) (non-public access reuse/disposal), or an Application to Place a Public Access Reuse System in Operation (DEP Form 17-610.910(3)) (public access projects). These forms must be signed and sealed by a Professional Engineer registered in the State of Florida.

13. The permittee shall operate and maintain this holding pond system 13. The permittee shall operate and maintain this holding pond system in strict accordance with Chapter 17-610, F.A.C. Hydraulic loading shall be uniformly distributed throughout the design bottom area such that the actual loading shall not exceed the design loading rate in any section of the pond bottom.

14. The permittee shall provide an approved flow measurement device on the domestic wastewater treatment plant to monitor the influent (ahead of any return flows) and/or effluent flow, as appropriate. For plants with design flow equal to or greater than 0.100 MGD, flow measurement shall be with a flow meter equipped with a recorder and an integrator or totalizer. The flow measurement device shall be calibrated at least annually, with evidence of calibration kept at the site of flow measurement, and submitted to the Department upon request.

15. The spray irrigation site shall be properly restricted giving access control to the area. Vegetation on the spray site shall be cropped regularly and the soil surface maintained in order to prevent ponding. Spray nozzles are to be regularly inspected for proper operation and the spray zone shall be entirely within the restricted area.

16. The permittee shall ensure that neither ponding nor run-off from the spray site occurs as a result of the spray irrigation of the reclaimed water. The Department considers ponding to be any residual which remains on the surface sufficient time to contaminate stormwater runoff or otherwise be environmentally objectionable due to odor or public health criteria.

17. The permittee shall provide a weatherproof location at the plant of site for the operator log, and ensure that the certified operator keeps the on-site log current to the last operation and maintenance performed on the site. These entries shall include at least the following: (a) plant name, (b) date and time in/out, (c) specific operation and maintenance performed, (d) test(s) performed and

Page 4 of 9

SPECIFIC CONDITIONS: (cont'd)

17. (cont'd) samples taken, (e) major repairs performed, and (f) signature and certification number of the operator. Any condition that causes a violation of this permit shall be reported to the Department within twenty-four (24) hours of discovery by the permittee or designated representative. These conditions shall include (g) equipment breakdown, (h) power outage, (i) destruction by fire, wind or other cause, and (j) conditions which cause, or are likely to cause serious plant breakdowns, inefficient or unsafe treatment plant operation, or a discharge of water or wastewater in a manner not authorized by the permit. The permittee is responsible for maintaining adequate communication with the operator in order to become informed of such abnormal events.

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18. The permittee shall maintain all audible and visual alarm systems γ on the lift station(s) in operating condition at all times.

19. A reduced pressure zone (RPZ) backflow preventer shall be installed on any potable water supply to the treatment facility. No potable water outlet intended for human contact shall be located down-line of the backflow preventer. Annual checks of the RPZ assembly by a properly certified technician is required. Certification documents should be kept at the plant and are subject to request for submittal by the Department.

20. The disinfection system shall be operated to maintain a minimum chlorine residual of 0.5 mg/L at the outfall from the chlorine contact chamber. A metering device for dosing chlorine to the effluent shall be utilized and the chlorine supply tank shall be inspected regularly to ensure proper operation.

21. Prior to sixty (60) days before the expiration of this permit, by the permittee shall apply for a renewal of the permit on forms and in a manner prescribed by the Department of Environmental Protection.

22. The permittee shall implement the DEP approved ground water monitoring plan prior to placing the restricted access spray irrigation site into active service.

23. Daily checks of the plant shall be performed by the permittee, or Supplier, or designated representative five (5) days per week for all Class C and D plants pursuant to Rule 17-699.311(1), F.A.C.

24. The permittee shall ensure that the construction of this facility No shall be as described in the application and supporting documents. Any request for change to this permit, shall be submitted in writing to the Domestic Wastewater Program Manager for review and clearance prior to implementation. Request for changes of negligible impact to the environment and staff time will be reviewed by the Program

Page 5 of 9

SPECIFIC CONDITIONS: (cont'd)

24. (cont'd) Manager, cleared when appropriate and incorporated into this permit. Changes or modifications other than those described above will require submission of a completed application and appropriate processing fee as per Section 17-4.050, F.A.C.

25. This permit may be extended for a period of up to four (4) additional years provided the permittee complies with all the conditions and requirements of this permit, including the need to provide adequate disinfection of the effluent on a consistent and reliable basis. The permittee may request, by letter and appropriate fee, further extension of the permit and submit evidence of satisfactory compliance with all permit conditions.

26. Ground Water Monitoring Plan (GWMP) a. In accordance with Rule 17-522.600(3), Florida Administrative Code (F.A.C.), the permittee has installed and placed into operation a Ground Water Monitoring System. The Ground Water Monitoring System is designed and constructed in accordance with the plans on file in the Southwest District office.

b. The ground water monitor well system consists of 3 monitor wells as listed below. All wells are to be clearly labeled and easily visible at all times.

Well Number	Aquifer	Location
* M W-2	Floridan	Approx. 1000' East of NE corner of sprayfield
MW- 6	Floridan	400' So. & 125' W. of NW corner of sprayfield
M W-7	Floridan	500' NW of NW corner of sprayfield

*Background well

c. If any monitoring well becomes damaged or inoperable, the permittee shall notify the Department immediately and a detailed written report shall follow within seven (7) days. The written report shall detail what problem has occurred and remedial measures that have been taken to prevent the recurrence. All monitoring well design and replacement shall be approved by the Department prior to installation of the replacement well.

d. Sixty (60) days prior to the submittal of the renewal application of this permit, the permittee shall sample all ground water monitor wells for the Florida Primary and Secondary Drinking Water parameters included in Rule 17-550, F.A.C., Public Drinking Water Systems (excluding asbestos, acrylamide and epichlorohydrin), fecal coliform and EPA Methods 601 and 602. The analyses shall be submitted to the Department with the renewal application.

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SPECIFIC CONDITIONS: (cont'd)

26. GWMP (cont'd)

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e. Sixty (60) days prior to the submittal of the renewal application of this permit, the permittee shall provide a 24 hour composite effluent sample prior to discharge to the plant percolation ponds. The composite sample shall be analyzed for the Florida Primary and Secondary Drinking Water Standards (excluding asbestos, acrylamide and epichlorohydrin) in accordance with Rule 17-550, F.A.C., the EPA Priority Pollutants and fecal coliform. The effluent analysis shall be submitted to the Department with the renewal application.

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f. All ground water monitor wells shall be sampled and analyzed QUARTERLY for the parameters listed below. There shall be a minimum of forty-five (45) days between any two (2) consecutive quarterly sampling events. Additional sample(s), well(s), and parameter(s) may be required based upon subsequent analyses.

PRIMARY STANDARDS	<u>UNITS</u>
Nítrate (as N) Sodium Turbidity	mg/L mg/L NTU
SECONDARY STANDARDS	

Chloride Total Dissolved Solids (TDS) pH

OTHERS

NH3 (as N)mg/LTemperature°CTotal Organic Carbon (TOC)mg/LSpecific Conductanceμmhos/cmFecal Coliformcts/100 mlWater Level (M.S.L.)feet

g. The ground water monitor wells shall be sampled, analyzed and results reported to the Department in accordance with the following schedule:

Sample Period

Report Inc Date

mg/L

mg/L

std. units

1st Qua	rter (January-)	March) April 15	
2nd Qua	rter (April-Ju	ne) July 15	
3rd Qua	rter (July-Sep	tember) October 3	5
4th Qua	rter (October-	December) January 3	

Page 7 of 9

SPECIFIC CONDITIONS: (cont'd)

26. GWMP (cont'd)

g. (cont'd) The permittee shall submit to the Department the results of the water quality analyses no later than the 15th day of the month immediately following the end of the sampling period. The results shall be sent to the Department of Environmental Protection, Southwest District Office, 3804 Coconut Palm Drive, Tampa, Florida 33619-8318.

g.(1) The permittee shall submit to the Department an annual
 cumulative summary of the quarterly ground water quality data. The
 data shall be presented in both graphical and tabular form for each
 ground water monitor well. The specific parameters are to include the
 following:

Nitrate (as N)	mg/L
Sodium	mg/L
Chloride	mg/L
Total Dissolved Solids (TDS)	mg/L
NH ₃ (as N)	mg/L
Specific Conductance	µmhos/cm
Fecal Coliform	cts/100m]
Water Level (M.S.L.)	feet

h. If, at any time, background ground water standards are exceeded at the edge of the zone of discharge, the permittee has fifteen (15) days from receipt of the laboratory analyses in which to resample the monitor well(s) to verify the original analysis. The monitoring test results must be submitted to the Department within fifteen (15) days of receipt of the reanalyses from the laboratory. Should the permittee choose not to resample, the Department will consider the water quality analysis as representative of current ground water conditions at the facility.

i. All field testing, sample collection, preservation and laboratory testing, including quality control procedures, shall be in accordance with a current Department Approved Comprehensive Quality Assurance Plan in accordance with Rule 17-160.300 and 17-520.300, F.A.C. Approved methods for chemical analyses are summarized in the Federal Register, December 1, 1976 (41FR52780) except that turbidity shall be measured by the Nephelometric Method.

j. Ground water sampling shall be reported on the attached Parameter Monitoring Report Forms [DEP Form 17-1.216(2)]. In order to facilitate entry of this data into the State computer system, these forms or an exact replica must be used and must not be altered as to content. The original copies should be retained so that the necessary information is available to properly complete future reports. The report forms received from the laboratory must be submitted along with the DEP Parameter Monitoring Report Forms described above.

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SPECIFIC CONDITIONS: (cont'd)

26. GWMP (cont'd)

6 k. The permittee shall ensure that the water quality standards for Class G-II ground waters will not be exceeded at the boundary of the zone of discharge according to Rule 17-520.400 and 17-520.420, F.A.C.

1. The permittee shall ensure that the minimum criteria for ground water specified in Rule 17-520.420, F.A.C. shall not be violated within the zone of discharge.

7. The permittee shall be aware of and operate under the attached
 "General Permit Conditions #1 thru #15". General Permit Conditions
 are binding upon the permittee and enforceable pursuant to Chapter 403 of the Florida Statutes.

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

Richard D. Garrity, Ph.D. Director of District Management

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Florida Department of SAWDY JOINE Environmental Protection JOHN LEVESQU MEL FISHE

Lawton Chiles Governor Southwest District 3804 Coconut Palm Drive Tampa, Florida 33619 813-744-6100

Virginia B. Wetherell Secretary

BILL WILLIA

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PERMITTEE: Southern States Utilities, Inc. 1000 Color Place Apopka, FL 32703

Attention: Mr. Rafael A. Terrerro, P.E. Environmental Service Manager PERMIT/CERTIFICATION GMS ID No: 4009P05400 * Permit No: D009-218511 Date of Issue:04/18/94 Expiration Date: 09/01/95 County: Citrus Lat/Long: 28°43'05" 82°30'50" Sec/Town/Range: 28/205/18E Project: Sugarmill Woods WWTP Processor: A.D. McLaurin

V02 XI 5X 15 817

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rule(s) 17-3, 17-4, 17-300, 17-500 and 17-600 Series. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents, attached thereto or on file with the Department and made a part thereof and specifically described as follows:

Operation of a 0.500 MGD Type I oxidation ditch domestic wastewater treatment plant with chlorinated effluent to a 1.5 MG holding pond and then to a 33 acre restricted access spray irrigation site.

Location: South of C.R. 480 and North of U.S. 98 in Citrus County, Florida.

Replaces Permit No. D009-158879 Expired: 09/01/92

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Permitlee: Southern Stales Utilities. Inc. Permit No: D009-218511

SPECIFIC CONDITIONS:

1. Drawings, plans, decuments or specifications submitted by the permittee, not attached hereto, but retained on file at the Southwest District Office, are made a part hereof.

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2. The zone of discharge boundary shall extend horizontally 100 feet from the site boundary or to the installation's property boundary, whichever is less, and vertically to the base of the shallow water table aquifer (Rule 17-502.410, F.A.C.)

3. The water quality standards for Class G-II ground water shall not be exceeded at the boundary of the zone of
Discharge (Fule 17-520.400, Jobe 17-510.420, F.A.C.)

4. In a tendance with Chapter 12-004, 0.2.7., the required toortilled operator on site time int A 0 and 0 or higher consists for 5 days/week and one visit in each weekend day.

B. The discharge from the chlorine contrast charbon shall be reprind in accordance with Chapter 1746 E. S.A.C. and shall repet the following limitations:

Paraneter	Unit	יית Minיי 		Type Sample	Frequency
Permitted Capac (flow) pH	ity mgd STD UN	.000 6.00	0 SOC BMARI 8.59	Efinat urat	Daily,S/wh Daily,S/wh Morthu
Suspended Soli	mg/L ds*	(1	20 Januar av 30 multidges pl 45 weeksy aver 67 any see sample	obert (pro	WCEFIY
Nitrate (as N) CL ₂ Fecal coliform	mg/L mg/L ∦/100	0.5 0 2	12 - 200 annu - avg. 200 aanto y avg. a	grab grab grab	Weenly Dasly,57wh Weekly

3MADE - Three month average daily fles Rfm&t - Recording flow meter & totalites 8HR-fpc - 8 hour flow propertioned conversite same)

*Influent shall be monitored and reported weaking [Rule 17-601.300(1), F.A.C.] The results shall be reported monthly to DEP Form the descent of

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Permittee: Southern States Utilities, Inc. Permit No: D009-218511



6. The sludge shall be sampled after final treatment in accordance with Rule 17-640.700(1)(b) F.A.C. but prior to land application for the parameters listed below every three (3) months. A copy of the analyses shall be submitted with the monthly operation report for the following parameters:

& dry weight Total Nitrogen -Total Phosphorus -& dry weight Total Potassium -% dry weight dry weight Cadmium - mg/kg Copper - mg/kg dry weight dry weight dry weight dry weight Lead - mg/kg Nickel- mg/kg Zinc - mg/kg pH - standard units Total Solids - %



7. Direct discharge from the holding pond or restricted access spray irrigation site to area surface waters is not allowed. Surface discharge shall be considered a violation of this permit and the permittee shall immediately report any such discharge to the S.W. District Office of the Department of Environmental Protection.

8. If historical or archaeological artifacts, such as Indian canoes, are discovered at any time within the project site, the permittee shall notify the DEP Southwest District office and the Bureau of Historic Preservation, Division of Archives, History and Records Management, R.A. Gray Building, Tallahassee, Florida 32301, telephone number (904) 487-2073.

9. The domestic wastewater residuals for this facility are classified as stabilization Class B.

a. The domestic wastewater residuals shall be land applied only at Cason property, Latitude - 28°44'50" N, Longitude -82°27'50" W, S/R/T - 23 & 24/20S/18E on 160 of 720 acres (as identified in the Agricultural Use Plan or Dedicated Site Plan submitted with the application).

b. Annual update reports, summaries, and revised Agricultural Use Plans are due not later than one year from the issuance of the permit. The reports shall be submitted annually thereafter, and not later than this anniversary date to the Department.

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Permittee: Southern States Utilities. Ppc. Permit No: D009-218511

c. The permittee shall comply with all provisions of Chapter 11/117-640, F.A.C. and shall report any neu-compliance or changes from the approved site plan to the Department. . Y

<u>е</u>,

10. In accordance with Rule 17-601.400(3), F.A.C., any laboratory test required by this permit shall be performed by a laboratory that has been certified by DHRS in accordance with Rule 10D41.100-113, F.A.C., to perform the test. On-site tests for disselved oxygen, pH, and total chlorine residual shall be performed by a laboratory certified to test for dissolved oxygen, pH and total chlorine residual or under the direction of an operator certified in accordance with Chapter 61E12-41, F.A.C.

11. In accordance with Rule 17-160.300(6), F.A.C., sample collection shall be performed by following the protocols outlined in "DEP Standard Operating Procedures for Laboratory Operations and Sample Collection herivities" (DEP-QL-001/91). Alternatively, sample collection may be performed by an organization which has an approved Comprehensive Quality Assurance Plan (CompQAP) on five with DEP. This CompOAL shall be approved for collection of samples from the required matrices and for the required tests.

12. The permittee shall operate and maintain this holding pond system in strict accordance with Chapter 17-610, F.A.C Hydraulic loading shall be uniformly distort ted throughout the design bottom area such that the actual loading shall not exceed the design loading rate in any rection of the pond bottom.

13. The permittee shall provide as approved the measurement device on the domestic wastewater is called blant to monitor the influent (ahead of any return flow, and/or effluent flow, as appropriate. For plants with decide flow equal to or greater than 0.100 MGD, flow measurement shall be with a flow meter equipped with a recorder and en integrated or totalizer. The flow measurement device shall be collupted at least annually, with evidence of calleration kept at the site of flow measurement, and submitted to the Department upon request.

14. The spray irrigation site short is property reconducted giving access control to the area. Vertetion on the spray site shall be cropped regularly and the cold surface maintained in order to prevent pondage for a norther area be regularly inspected for proper source in sect the spray zone shall be entirely within the reconstruction of these

Page 4 of 10

Permittee: Citrus County Board of County Commissioners Permit No: DC09-240161

15. The permittee shall ensure that neither ponding nor run-off from the spray site occurs as a result of the spray irrigation of the wastewater. The Department considers ponding to be any residual which remains on the surface sufficient time to contaminate stormwater runoff or otherwise be environmentally objectionable due to odor or public health criteria.

 $\mathcal{O}(\mathcal{O})$ the plant site for the operator log, and ensure that the certified operator keeps the on/site log curve that the 16. The permittee shall provide a weatherproof location at certified operator keeps the on/site log current to the last operation and maintenance performed on the site. These entries shall include at least the following: (a) plant name, (b) date and time in/out, (c) specific operation and maintenance performed, (d) test(s) performed and samples taken, (e) major repairs performed, and (f) signature and certification number of the operator. Any condition that causes a violation of this permit shall be reported to the Department within twenty-four (24) hours of discovery by the permittee or designated representative. These conditions shall include (g) equipment breakdown, (h) power outage, (i) destruction by fire, wind or other cause, and (j) conditions which cause, or are likely to cause serious plant breakdowns, inefficient or unsafe treatment plant operation, or a discharge of water or wastewater in a manner not authorized by the permit. The permittee is responsible for maintaining adequate communication with the operator in order to become informed of such abnormal events.

17. The permittee shall maintain all audible and visual (12) alarm systems on the lift station(s) in operating condition at all times.

18. A reduced pressure zone (RPZ) backflow preventer shall be installed on any potable water supply to the treatment facility. No potable water outlet intended for human contact shall be located down-line of the backflow preventer. Annual checks of the RPZ assembly by a properly certified technician is required. Certification documents should be kept at the plant and are subject to request for submittal by the Department.

19. The disinfection system shall be operated to maintain a minimum chlorine residual of 0.5 mg/L at the outfall from the chlorine contact chamber. A metering device for dosing chlorine to the effluent shall be utilized and the chlorine supply tank shall be inspected regularly to ensure proper operation.

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CPS/W)

Permittee: Southern States Utililies, Inc.

20. Prior to sixty days before the expiration of this permit, the permittee shall apply for a renewal of the permit on forms and in a manner prescribed by the Dopartment of Environmental Protection

21. Daily checks of the plant shall be performed by the permittee, or supplier, or the designated representative five (5) days per week for all Class C and D plants pursuant to Rule 17-699.311(1), F.A.C.

22. The permittee shall ensure that the operation of this " is rante. facility shall be as described in the application and supporting documents. Any request for change to this permit, shall be submitted in writing to the Domestic Westewater Frogram Manager for review and clearance prior to implementation. Requests for changes of negligible impact to the environment and staff time will be reviewed by the Frogram Manager, cleared when appropriate and incorporated into this permit. Changes or modifications other than those described above will require submission of a completed application and appropriate processible for as per Section

(22. This permit may be extended for a period of up to Two (2) additional years provided the permitted coupling with the conditions and requirements of the coupling with (2) additional years provided the persities coupling with all the conditions and requirements of the persit, including the need to provide adequate disinfratic of the efficient of a consistent and reliable basis. The permitter may request, by letter and appropriate fee, further extension of the permit. and submit evidence of satisfactory copliance with all permit conditions.

The permittee shall replace and cohadisitate the placing <u>24</u>. or damaged existing higs -volume sprayl ada within the existing 33 acres restricted accounting any incountion site within thirty (30) days from the este date of our persit.

NG following construction condutes The permittee shall implement the condition details areading to the

A. Prepare final design drawings by a 01/24 5/01/ B. Obtain State and county permi-- b*: C. Bid/Award project by 08/01/04 D. Begin construction (Notice to the (6) N. L. M. C. I. AND CONTRACTOR E. Substantial completion (10 dej (*** F. Final completion by 04/01/50 G. Modification of the operative and the second second

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Permittee: Southern States Utilities, Inc. Permit No: D009-218511

 $\mathcal{E}_{\mathcal{N}}^{(U)}$ 26. Failure to implement or adhere to the above construction $\mathcal{E}_{\mathcal{N}}^{(U)}$ schedule may subject the permittee to enforcement action the Department $K_{\rm obs}^{\rm obs}$ raisure to implement or adhere to the above construction $K_{\rm obs}^{\rm obs}$ schedule may subject the permittee to enforcement action by $C_{\rm obs}^{\rm obs}$ and the Department.

OF A. IN ACCOUNT WATER MONITORING PLAN B (OPERATION) Administrative Code (F.A.C.), the permittee has installed and placed into operation a ground water Monitoring System placed into operation a ground water Monitoring System. The Ground Water Monitoring System is designed and constructed in accordance with the plans on file in the Southwest District office.

 $\alpha(1)^{(1)}$ monitor wells as listed below. All wells are to be clearly labeled and easily visible at all times

<u>Well Number</u>	<u>Aquifer</u>	Location
*MW - 2 MW - 6 MW - 7	Floridan Floridan Floridan	Aprox. 1000' East of NE corner of sprayfield 400' South and 125' West of NW cornr of sprayfield 500' NW of NW corner of

sprayfield.

*Background well

The wells are to be clearly labeled and easily visible at all times.



C. If any monitoring well becomes damaged or inoperable, the permittee shall notify the Department immediately and a detailed written report shall follow within 7 days. The written report shall detail what problem has occurred and remedial measures that have been taken to prevent the recurrence. All monitoring well design and replacement shall be approved by the Department prior to installation of the replacement well.

D. Sixty days prior to the submittal of the renewal application of this permit, the permittee shall sample all ground water monitor wells for the Florida Primary and Secondary Drinking Water parameters included in Rule 17-550, F.A.C., Public Drinking Water Systems, fecal coliform and EPA Methods 601 and 602. The analyses shall be submitted to the Department with the renewal application.

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Permittee: Southern States Utilities, and. Permit No: D000-218501

E. Sixty days prior to the submittal of the renewal application of this permit, the permittee shall provide a 24 hous composite effluent sample prior to discharge to the plant percolation ponds. The composite sample shall be analyzed for the Florida Primary and Secondary Drinking Water Standards in accordance with Rule 17-100, t.A.C., the EFA Priority Pollutants and fecal coliform. The effluent analysis shall be submitted to the Depirtment with the renewal application.

F. All ground water monitor wills shall be sampled and analyzed QUARTERLY for the parameters listed below Additional sample(s), well(s), and persector(s) may be required based upon subsequent analyses.

PRIMARY STANDARDS	
Nitrate (as N)	1407)
Sodium	mg71
Turbidity	NTU

SECONDARY STANISSIC

Chloride m Total Dissolve: Schult (TDE) m pH St

ng/: ng/ sti unite

pro 1

mrs/1

te

una est / the

4.1.

<u>OTHERS</u>

optive

NH3 (as N) Temperature Total Organic carbon (Dety Specific Conductance Fecal Coliforn Water Level (M. S.J.)

G. The ground water menito, wells sheet be samples, analyzed and results reported to the heporteend of according with the following schedule

Sample Period

Broot Line Flerry

1st Quarter (Jameny Model) 2nd Quarter (AproleJune) 3rd Quarter (Jule - Sopherson 4th Quarter (October-Decoster)

April 5 Bond Anno 2000 Berley Jon Orio (Berley 1996) Constant of State

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Permittee: Southern States Utilities, Inc. Permit No: D009-218511

The permittee shall submit to the Department the results of the water quality analyses no later than the 15th day of the month immediately following the end of the sampling period. The results shall be sent to the Department of Environmental Protection, Southwest District Office, 3804 Coconut Palm Drive, Tampa, Florida 33619-8318.

H. If, at any time, background ground water standards are exceeded at the edge of the zone of discharge, the permittee has 15 days from receipt of the laboratory analyses in which to resample the monitor well(s) to verify the original analysis. The monitoring test results must be submitted to the Department within 15 days of receipt of the reanalyses from the laboratory. Should the permittee choose not to resample, the Department will consider the water quality analysis as representative of current ground water conditions at the facility.

I. The field testing, sample collection and preservation and laboratory testing, including quality control procedures, shall be in accordance with methods approved by the Department in accordance with Rule 17-4.246 and 17-520.300, F.A.C. Approved methods as published by the Department or as published in Standard Methods, A.S.T.M. or EPA methods shall be used. Approved methods for chemical analyses are summarized in the Federal Register, December 1, 1976 (41FR52780) except that turbidity shall be measured by the Nephelometric Method.

J. Ground water sampling shall be reported on the attached Parameter Monitoring Report Forms [DEP Form 17-1.216(2)]. In order to facilitate entry of this data into the State computer system, these forms or an exact replica must be used and must not be altered as to content. The original copies should be retained so that the necessary information is available to properly complete future reports. The report forms received from the laboratory must be submitted along with the DEP Parameter Monitoring Report Forms described above.

K. The permittee shall ensure that the water guality $\binom{L}{L}$ standards for Class G-II ground waters will not be exceeded at the boundary of the zone of discharge according to Rule 17-520.400 and 17-520.420, F.A.C.

L. The permittee shall ensure that the minimum criteria for f(L) ground water specified in Rule 17-520.420, F.A.C. shall not be violated within the zone of discharge.

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remmittee: Southern States Otilities, Inc. 2
Permit No: D009-218511

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25. The permittee shall be aware of and operate under the attached "General Permit Conditions #1 through #15". General Of Permit Conditions are binding upon the permittee and referenable pursuant to Chapter 40% of the Floride Statutes.

> STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

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Richard D. Carrity, Ph.D. Dire for of District Disagement

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Gerald Hartman

Late Filed Exhibit No. 94

Docket No. 950495-WS

Set-Back Requirements in FDEP Rules

FLORIDA PUBLIC SERVICE COMMISSIC	
NO. <u>980 993-W3</u> EXHIBIT NO.	<u>44</u>
NITNESS: <u>4-29-97</u>	

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62–521.100 62–521.200 62–521.400	Scope and Intent of Wellhead Protection. Definitions for Wellhead Protection. Ground Water Protection Measures in Wellhead Protection Areas.	2 2 3
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62-521.100 Scope and Intent of Wellhead Protection.

(1) Florida's ground water resource is the primary source of drinking water in the state, supplying over 90 percent of all public water supply.

(2) The intent of wellhead protection is to protect potable water wells, as defined in Rule 62-521.200, F.A.C., from contamination, and to prevent the need for their replacement or restoration due to contamination.

(3) The scope of this chapter is to provide more protection to potable water wells by establishing a statewide wellhead protection program which includes:

(a) Criteria for delineating wellhead protection areas, and

(b) Department imposed permitting and monitoring requirements within these areas.

(4) This chapter is not intended to discourage local governments from establishing more comprehensive or more stringent protection measures.

Specific Authority: 403.061, F.S. Law Implemented: 403.021, 403.062, F.S. History: New 7-13-95.

62-521.200 Definitions for Wellhead Protection. For the purpose of this chapter the following definitions shall apply. For other terms used in this chapter, the definitions contained in Chapters 62-520 and 62-522, F.A.C., shall prevail over definitions established elsewhere by Department rule.

(1) "Community Water System" means a public water system which serves at least 15 service connections used by year-round residents or regularly serves at least 25 year-round residents.

(2) "Existing Installation" means any installation including its zone of discharge established under Chapter 62-522, F.A.C., or other Department rule, regulated under this chapter which, on or before 90 days after the effective date of this chapter, or before the commencement of construction of a potable water well whose wellhead protection area would include that installation: either has a Department construction or operation permit or authorization; has submitted a complete construction permit application; has filed a notice of intent to file an application under Rule 62-17.041, F.A.C., or an application under Rule 62-17.051, F.A.C., or has filed an application or request for a meeting with the Department under Rule 62-17.540, F.A.C.; or is exempt from Department permitting or ground water monitoring requirements. Except as provided in Rule 62-521.400, F.A.C., this chapter does not apply to existing installations.

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(3) "Installation" means any structure, equipment, facility, or appurtenances thereto, operation, or activity which may be a source of pollution.

(4) "New Installation" means any installation other than an existing installation as defined in (2) above.

(5) "Non-Transient Non-Community Water System" means a public water system that is not a community water system and that regularly serves at least 25 of the same persons over 6 months per year.

(6) "Potable Water Well" means any water well which supplies water for human consumption to a community water system or to a non-transient non-community water system. For the purpose of this rule, any potable water well installed by an installation used to serve that installation's operation is excluded from this definition.

(7) "Wellhead Protection Area" means an area designated by the Department consisting of a 500 foot radial setback distance around a potable water well where ground water is provided the most stringent protection measures to protect the ground water source for a potable water well and includes the surface and subsurface area surrounding the well.

Specific Authority: 403.061, F.S. Law Implemented: 403.021, 403.061, F.S. History: New 7-13-95.

62-521.400 Ground Water Protection Measures in Wellhead Protection Areas.

(1) The Department shall require new installations to meet the following restrictions within a wellhead protection area.

(a) New domestic wastewater treatment facilities shall be provided with Class I reliability as described in Chapter 62–600, F.A.C., and flow equalization. New wastewater ponds, basins, and similar facilities shall be lined or sealed to prevent measurable seepage. Unlined reclaimed water storage systems are allowed for reuse projects permitted under Part III of Chapter 62–610, F.A.C.

(b) New reuse and land application projects shall be prohibited except for new projects permitted under Part III of Chapter 62–610, F.A.C.

(c) New domestic wastewater residuals land application sites, as defined in Chapter 62-640, F.A.C., shall be prohibited.

(d) New discharges to ground water of industrial wastewater, as regulated under Chapters 62-660, 62-670, 62-671, and 62-673, F.A.C., shall be prohibited except as provided below:

1. All non-contact cooling water discharges (without additives); and

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2. Discharges specifically allowed within a wellhead protection area in Chapters 62-660, 62-670, 62-671, and 62-673, F.A.C.

(e) New phosphogypsum stack systems, as regulated under Chapter 62-673, F.A.C., are prohibited.

(f) New Class I and Class III underground injection control wells, as regulated in Chapter 62–528, F.A.C., are prohibited.

(g) New Class V underground injection control wells, as regulated in Chapter 62-528, F.A.C., are prohibited except as provided below:

1. Thermal exchange process wells (closed-loop without additives) for use at single family residences; and

2. Aquifer storage and recovery systems wells, where the injected fluid meets the applicable drinking water quality standards in Chapter 62–550, F.A.C.

(h) New solid waste disposal facilities regulated under Chapter 62-701, F.A.C., are prohibited.

(i) New generators of hazardous waste, as regulated under Chapter 62–730, F.A.C., which excludes household hazardous waste as defined in 40 C.F.R. Part 261.4(b)(1) (1994), hereby incorporated and adopted by reference, shall comply with the secondary containment requirements of 40 C.F.R. Part 264 Subpart I (1994), hereby incorporated and adopted by reference.

(j) New hazardous waste treatment, storage, disposal, and transfer facilities requiring permits under Chapter 62-730, F.A.C., are prohibited.

(k) New aboveground and underground tankage of hazardous wastes regulated under Chapter 62–730, F.A.C., is prohibited.

(1) Underground storage tanks regulated under Chapter 62-761, F.A.C., shall not be installed 90 days after the effective date of this rule. Replacement of an existing underground storage tank system regulated under Chapter 62-761, F.A.C., within the same excavation, or addition of new underground storage tanks regulated under Chapter 62-761, F.A.C., at a facility with other such underground storage tanks is exempt from this provision, provided that the replacement or new underground storage tank system is installed with secondary containment as required in Chapter 62-761, F.A.C.

(m) Aboveground storage tanks regulated under Chapter 62–762, F.A.C., shall not be installed 90 days after the effective date of this rule. Replacement or upgrading of an existing aboveground storage tank or addition of new aboveground storage tanks which are regulated under Chapter 62–762, F.A.C., at a facility with other such aboveground storage tanks is exempt from this provision, provided that the replacement or new aboveground storage tank system meets the applicable provisions of Chapter 62–762, F.A.C.

(n) Storage tanks which meet the auxiliary power provisions of Rule 62-555.320(6), F.A.C., for operation of a potable water well and storage tanks for substances used

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DEP 62-521.400(1)(n)

for the treatment of potable water are exempt from the provisions of this rule. Storage tanks regulated under Chapters 62–761 and 62–762, F.A.C., shall continue to meet the requirements of those chapters.

(o) Applicants should take note that to prevent the vertical migration of fluids, a water management district may require a construction permit for new water wells, which shall meet the applicable construction standards contained in Chapter 62–532, F.A.C.

(2) Emergency equipment, including storage tanks, that is necessary to provide power to ensure a continuous supply on an emergency basis of public water supply, electrical power, sewer service, telephone service, or other essential services that are of a public benefit are exempt from the provisions of this chapter. This does not exempt these services from meeting other applicable Department rules.

(3) Discharge to ground water from Department approved remedial corrective actions for contaminated sites located within wellhead protection areas shall not be subject to the discharge restrictions in this chapter.

(4) Nothing herein supersedes more stringent setback or permitting requirements contained in other Department rules.

Specific Authority: 403.061, F.S. Law Implemented: 403.021, 403.061, 403.087, 403.088, F.S. History: New 7-13-95.

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DEP 62-521

7/95

LISTING OF AMENDMENTS

Chapter/Section	Change	Effective Date Description of Change
UPDATE: 7/95		
62–521.100	Addition	July 13, 1995 Stating that the intent of wellhead protection is to pro- tect potable water wells from contamination and to pre- vent the need for their replacement or restoration due to contamination.
62-521.200	Addition	July 13, 1995 Creating a definitions section for this rule.
62–521.400	Addition	July 13, 1995 Establishing ground water permitting and monitoring re- quirements in wellhead protection areas.



REUSE OF RECLAIMED WATER AND LAND APPLICATION DEP 62–610.419(2)

PART II: SLOW-RATE LAND APPLICATION SYSTEMS; RESTRICTED PUBLIC ACCESS

(2) Subsurface application systems may be used if the reclaimed water is made available to the plant root zone and the hydraulic loading rates and cycles comply with Rule 62-610.423, F.A.C.

(3) No cross-connections to potable water systems shall be allowed.

(4) For all systems, there shall be readily identifiable "non-potable" notices, marking, or coding on application/distribution facilities and appurtenances.

Specific Authority: 403.061, 403.087, F.S. Law Implemented: 403.021, 403.061, 403.062, 403.085, 403.086, 403.087, 403.088, F.S. History: New 4-4-89, Formerly 17-610.419, Amended 1-9-96.

62–610.421 Setback Distances.

(1) The permittee shall maintain setback distances between the wetted site area subject to land application and surface waters and potable water supply wells to ensure compliance with water quality and drinking water standards, and to protect the public health, safety and welfare. All systems shall be designed to minimize adverse effects resulting from noise, odor, lighting and aerosol drift. Adequate site area shall be provided for operation and maintenance, and for controlling emergency discharges.

(2) Slow-rate land application systems shall maintain a distance of 100 feet from the edge of the wetted area to buildings that are not part of the treatment facility, utilities system, or municipal operation; or to the site property line.

(a) This distance shall be reduced to 50 feet if the setback is vegetated with trees or shrubs to create a continuous visual barrier at least five feet high to minimize aerosol drift. This distance shall be reduced to 25 feet if high-level disinfection is provided in addition to the setback vegetation.

(b) This distance shall be reduced to 50 feet if only low trajectory, low pressure nozzles or surface application techniques are used within the outermost 50 feet of the application area. This distance shall be further reduced to 25 feet if high-level disinfection is also provided.

(c) If subsurface application systems are used, no setback distances to buildings are required. If subsurface application systems are used, the setback distance to the site property line shall be reduced to 30 feet. If subsurface application systems are used and if high-level disinfection is provided, the setback distance to the site property line shall be reduced to 10 feet.

(d) This on-site setback distance shall be reduced to 50 feet if high-level disinfection is provided.

(3) A 500-foot setback distance shall be provided from the edge of the wetted area to potable water supply wells that are existing or have been approved by the Department

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REUSE OF RECLAIMED WATER AND LAND APPLICATION

DEP 62-610.421(3)

PART II: SLOW-RATE LAND APPLICATION SYSTEMS; RESTRICTED PUBLIC ACCESS

or by the Department of Health and Rehabilitative Services (but not yet constructed); Class I surface waters; or Class II surface waters. This distance shall be reduced to 200 feet if facility Class I reliability is provided in accordance with Rule 62–610.462(1), F.A.C. This distance shall be reduced to 100 feet if facility Class I reliability is provided in accordance with Rule 62–610.462(1), F.A.C., and if high-level disinfection is provided. Reductions in the 500-foot setback distance to potable water wells, as described in Rule 62–521.200, F.A.C., shall not be allowed. Setback distance requirements apply to all Class II waters regardless of Department classification (such as open, closed, approved, conditionally approved, restricted, conditionally restricted, prohibited, or unclassified).

(4) No setback distance is required to any nonpotable water supply well.

(5) A 100-foot setback distance shall be provided from a reclaimed water transmission facility to a public water supply well. No setback distance is required to other potable water supply wells or to nonpotable water supply wells.

(6) Setback distances for potable water supply wells shall be applied only for new or expanded reuse facilities. Setback distances shall not be applied when considering renewal of a permit.

(7) Minimum setback distances to other classes of surface waters shall be established case-by-case based on compliance with applicable water quality standards.

(8) The minimum setback distances described above shall only be used if, based on review of the soils and hydrogeology of the area, the proposed hydraulic loading rate, quality of the reclaimed water, expected travel time of the ground water to the potable water supply wells and surface waters, and similar considerations, there is reasonable assurance that applicable water quality standards will not be violated.

(9) The edge of the wetted area of the land application system shall be at least 100 feet from outdoor public eating, drinking, and bathing facilities.

(10) A 500-foot setback distance shall be provided from new unlined storage ponds to potable water wells, as described in Rule 62-521.200, F.A.C.

Specific Authority: 403.061, 403.087, F.S. Law Implemented: 403.021, 403.061, 403.062, 403.085, 403.086, 403.087, 403.088, F.S. History: New 4-4-89, Amended 4-2-90, Formerly 17-610.421, Amended 1-9-96.

62-610.423 Hydraulic Loading Rates.

(1) Hydraulic loading rates shall be established after considering the ability of the soil-plant system to remove pollutants from the reclaimed water.

(2) Loading of nitrogen shall promote use by vegetation and nitrification-denitrification reactions in the soil. If supplemental fertilizers are used, the effect of such fertilizer

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DOCKET <u>950495-WS</u> EXEMPT <u>95</u> CASE NO. <u>96-04227</u>

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01 EXHIBIT NO.

WITNESS:

DOCKET NO. 950495-WS

APPLICATION FOR RATE INCREASE BY

SOUTHERN STATES UTILITIES, INC.

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

DESCRIPTION:

FPSC NOTICE OF STAFF WORKSHOP Issued June 12, 1995 Re: STAFF'S DRAFT RULES ON USED AND USEFUL With 5-12-95 Rule Draft Attached

FLORIDA PUBLIC SERVICE COMMISSION DOCKET SO495- MIS EXHIBIT NO 95 WITNESS: DATE
BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

NOTICE OF STAFF WORKSHOP

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WATER AND WASTEWATER UTILITIES

AND

ALL INTERESTED PERSONS

RE: UNDOCKETED

USED AND USEFUL RULEMAKING WORKSHOP

ISSUED: <u>June 12, 1995</u>

NOTICE is hereby given that the Staff of the Florida Public Service Commission will conduct a workshop, in the above-referenced matter, to which all persons are invited, at the following time and place:

> 9:30 a.m., Wednesday and Thursday, July 12 - 13, 1995 Room 152, Betty Easley Conference Center 4075 Esplanade Way Tallahassee, Florida 32399

PURPOSE

The purpose of this workshop is to discuss and evaluate staff's proposed rules regarding the determination of plant used and useful in rate proceedings. A copy of staff's proposed rules is attached to this Notice. Workshop participants should review the rules and be prepared to comment on them.

Parties who wish to comment but cannot attend the workshop are encouraged to file comments with the Division of Records and Reporting, 2540 Shumard Oak Blvd., Tallahassee, Florida 32399-0850, on or before July 5, 1995, specifically referencing "Undocketed Water and Wastewater Used and Useful Workshop."

Those rules pertaining to both water and wastewater systems, such as margin reserve, will be discussed first on July 12th. The workshop will then focus on issues applicable to wastewater systems. The final topic will be the rules pertaining to water systems only.

Any person requiring accommodation at this workshop due to a physical impairment should call the Division of Records and Reporting at (904) 413-6770 at least five calendar days prior to the workshop. Persons who are hearing or speech impaired should contact the Florida Public Service Commission using the Florida Relay Service, which can be reached at (800) 955-8771 (TDD). DUCUTES 199-1475

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NOTICE OF WORKSHOP UNDOCKETED PAGE 2

General Information

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Pursuant to Section 367.081(2)(a), Florida Statutes, the Commission is required to consider plant "used and useful" in the public service. The Commission practice is to consider used and useful in each rate proceeding. In an effort to codify prior practice, and to introduce new procedures, the proposed rules are offered. A utility's investment in transmission and distribution and collection lines is not addressed by the default used and useful formulas; however, it is addressed with respect to margin reserve. Due to the potential complexity of codifying formulas for lines, this subject is not being addressed at the workshop.

Parties who wish to submit materials for the Commission's and participants' review and discussion should submit them to Mr. John Williams, Division of Water and Wastewater, 2540 Shumard Oak Blvd., Tallahassee, Florida 32399-0850, by July 3, 1995, so that copies may be made.

Issues

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Both Water and Wastewater Systems

- 1. Are the proposed definitions adequate?
- 2. Are the proposed margin reserve calculations proper and sufficient?
- 3. Have cost/benefit analyses been addressed adequately?

Wastewater Systems Only

- 4. Are infiltration and inflow addressed sufficiently?
- 5. Are the used and useful default formulas for wastewater systems adequate?

Water Systems Only

- 5. Is the proposed rulemaking regarding fire flow appropriate and adequate?
- 7. Has unaccounted for water been addressed sufficiently?
- 8. Are the used and useful default formulas for water systems adequate?
- 9. What is the appropriate methodology for determining instantaneous demand?

NOTICE OF WORKSHOP UNDOCKETED PAGE 3

JURISDICTION

Jurisdiction is vested in this Commission pursuant to Chapter 367, Florida Statutes. The workshop will be governed by the provisions of that Chapter and Chapters 25-22 and 25-30, Plorida Administrative Code.

By DIRECTION of the Florida Public Service Commission, this ______ day of ______, ______, ________, ________.

Dla BLANCA S. BAYO, Director

Division of Records and Reporting

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25-30.432 Used and Useful in Bate Gase Proceedings. (1) Definitions - the following definitions apply to Rule 25: 30.432. F.A.C., for determining used and useful yeter and westewater
(1) Definitions - the following definitions apply to Rule 25- 30.432, F.A.C., for determining used and useful yeter and westewater
30.432. F.A.C., for determining used and useful water and westewater
facilities.
(a) Economies of scale : The decrease in unit cost of water or
wastewater plant, that typically occurs with an increase in system
capacity. Economies of scale can be defined sither in the context of
total system capacity or changes in a single component of the system.
(b) Effluent Disposal Facilities - this includes, but is not
limited to, the transmission lines, percolation and evaporation ponds.
aprayfields, irrigation systems, affluent pumping aquipment, and deep
wells utilized in the disposal of affluent or reclaimed water. as required
to meet applicable fuderal, state and local requirements.
(c) Emergency Storage : that storage required by a water system to
meet the emergency-like demands of the customers. Typically, Emergency
Storage is made available when it is more cost effective to provide the
grorage and pumping facilities than to add redundancy to the system for
emorgency conditions. The quantity of Emergency Storage need is a
function of the duration of the emergency condition and is assumed to be
approximately one helf of the maximum day demand.
(d) Equalization Volume - the quantity of storage in a water
system necessary to meet the customers' greatest demands which are beyond
the throughput capacity of the source of supply or water treatment

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L	equipment. The Equalization Volume is assumed to be approximately one-	1
2	quarter of the maximum daily demand.	2
3	(e) Equivalent Residential Connection (ERC) - 350 god per ERC for	1
<u>4</u>	water and 280 gpd per ERC for wastewater.	4
5	(f) Fire Flow Requirement - as defined in 25-30.432(5)(b), F.A.C.	2
<u>5</u>	(g) Firm Reliable Capacity - the capacity of a particular	£
1	component of a water facility in which at least the largest unit is	1
1	assumed to be out of service. If the used and usaful category contains	<u>8</u>
2	several components, the Firm Kelleble Capacity is assumed to be the	2
Ď	limiting component in that category with the largest unit out of service.	18
<u>1</u>	If there is only one component, then that component's capacity becomes the	ц
2	Firm Reliable Capacity. For finished water storage, the Firm Reliable	12
2	Capacity excludes any unusable or dead storage (10% of ground storage	13
4	<u>capacity).</u>	14
5	(h) Inflitration - refers to those extraneous flows (usually from	15
<u>6</u>	groundwater sources) that enter the wastewater system through openings in	16
1	plues that may be caused by normal deterioration. corrosion, or damage	17
ŧ	from ground movement or structurel overload.	18
9	(1) Inflow - refers to extraneous flows from sources other than	19
<u>o</u>	infiltration, such as surface water run-off into memboles or from	20
1	unauthorized connections to surface water sources.	21
2	(1) Instantaneous Demand ; the greatest demand that a vater avaram	22
2	attains. It is typically used only as a design criteria for small water	23

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system attained during the past 5 years of time, exclusive of emergency or fire flow evence. (n) Other Vastewater Facilities - this includes, but is not limited to, disinfaction units, emergency generators, auxiliary engines, customer service laterals. laboratory souipment, utility office and other general plant and coulpment used in the operation of a westewater system. Specifically excluded from this definition are a vastewater avatem's pumping stations and collection mains (both gravity and force). (c) Other Water Facilities - this includes, but is not limited to. hydropneumatic tanks, disinfection facilities, emergency generators, auxiliary angines, customer, service lines and meters, laboratory equipment, utility office and other general plant used in the operation of a water system. Specifically excluded from this definition are a vater

quantitative information indicates greater demands.

mandated in Rule 62-699, F.A.C.

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capacity of 1 million gallons per day or greater. Staffing shall be as

(k) Large Mater System - a system that has a firm reliable

(1) Hargin Reserve - as defined in 25-30.432(5)(a), F.A.C. (m) Haximum Day Demand - the maximum daily demand that a water

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systems with no storage and a small distribution system that does not have the ability to absorb these instantaneous demands through depressurization of the distributions system. The charts in Rule 25-30.432(7). F.A.C. shall be used to determine the instantaneous demand unless specific

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1	system's transmission and distribution lines.	1	limited to, the influent structure, pretreatment facilities, pumps,
2	(p) Peak Hour Demand : the grantast demand arrained by a vater	2	serators, clarification tanks, filters, disestors, and chloring contact
3	zystem over a sustained period of 60 minutes. Typical design criteria for	3	<u>equipment.</u>
<u>4</u>	a Peak Hour Demand of 2 times the maximum day demand or 1.1 sum per ERC	£	(2). The utility's investment, prodently incurred, in meeting its
5	can be used if historical flow data is not available.	2	statutory obligations to provide safe, efficient and sufficient service.
é	(9) Small Hater System - a system that has a firm reliable	é	shall be considered used and useful.
1	capacity of less than 1 million gallons per day. Staffing shall be as	2	(3) Utilities are encouraged to undertake planning that recognizes
<u>0</u>	mandesed in Bule 62-599, F.A.C.	\$	conservation, environmental protection, economies of scale, and which is
9	(r) Unaccounted for water - all water produced or purchased by a	2	sconomically baneficial to its customers over the long term.
0	water utility that is neither sold, matered nor accounted for in the	19	(4) In determining those portions of veter and vestewater systems
1	records of the utility. Mater, other than that sold, that shall be	п	that are used and useful in serving the public, the Commission shall
12	accounted for jucindes, but is not limited to, water for plant operations,	12	consider:
<u>i</u> 2	line flushing, hydrant testing, hydrant use, sever cleaning, and street	12	(a) the design and construction requirements set forth in Chapters
14	<u>cleaning.</u>	14	62-532. 52-555. 62-600. 62:69). 62-604. 62-620 and 62-640. F.A.G.
12	(s) Vastevater Gustomer Demand - the vastewater flows which match	15	(b) the investment in land acquired or facilities constructed or
1.5	the utility's specified time frame in its Pepartment of Environmental	76	to be constructed in the public interest within a reasonable time in the
12	Protection (DEP) permit annual everage daily flow, the three month	17	<u>future:</u>
18	average daily flow, or the maximum month average daily flow.	18	(c) the prudence of the investment, taking into consideration such
12	(t) Vastawater Permitted Canacity - the established design	19	factors as the treatment process, water storage capacity, economies of
29	capacity of a wastawater facility in its DEP permit and the specified time	20	scale, the historical and projected rate of growth in customers, and
41	frame fannual average daily flow, maximum monthly average daily flow.	21	demand, regulatory requirements, including those requiring plant
22	three-month average daily flow}.	22	redundancies, seasonal demand characteristics, residential and commercial
22	(u) Vastavatar Treatment Equipment - this includes, but is not	22	eix. and the configuration of the service area.
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specific factors shall soply. When applying these factors, references to

demand shall mean the demand per connection (in ERCs) used for design or

(5) For the purpose of calculating used and useful, the following

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permitting, or the actual historical demand per connection if such data has been shown by the utility to be accurate and reliable ... (a) Hargin Reserve The Commission recognizes that for a utility to meet its 1. statutory responsibility, it must have sufficient capacity and investment to meet the existing and changing demands of present customers, and the demands of potential customers within a reasonable time. . The investment needed to meet the demands of potential customers and the changing demands of existing customers is defined as mergin reserve. Margin reserve is recognized as a component of used and useful rate base. The Commission shall include an allowance for margin reserve if requested by the utility. 2. In determining the allowable investment in margin reserve, the Commission shall consider, but not be limited to, the functions of each component of plant. regulatory lar, the rate of growth in customers and demand, and the time needed to construct plant (the "construction faccor"). As a part of its rate filing, the utility shall submit 3_

historical, reliable data for a minimum of four years, if available, preceding the test year and including the test year for the year and number of customers by class and meter size: the ennual sales by class;

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the annual treated or pumped flows for the system; and syste	n peak day
flows for each year. The utility's most recent westewate	Capacity
analysis report. if any, filed with DEP shall also be submitted	AS DATE OF
the rate filing.	
4. Unless otherwise justified, margin ceserve shall be	calculated
by applying linear regression to the utility's five years.	historical
growth date (in ERCs) so that a projected growth can be dete	rmined and
then multiplying that growth by the appropriate construction :	factor.
a. Mater source and treatment facilities and wasteware	r creatment
and disposal facilities; the calculated growth (in ERGs) multip	lied by the
following construction factors:	
(1) water source, treatment facilities, and each we	Car ayatem
component have a construction factor of 3 years:	
(11) vestewater treatment, and disposel, facilities	a baya a
construction factor of 3 years:	
b. Margin reserve for transmission and distribution	Lines and
pumping stations and collection mains shall be the calcula	ted growth
multiplied by a construction factor of 1 year.	
(b) Pice Ploy	
1. Fire flow shall be considered in used and used	<u>ul default</u>
formulas for storage and high service pupping for any ut	illty that
requests that fire flow be a consideration in its system requir	seents. If
the Commission determines that a utility can provide fire flo	v in a more

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met within the specified timetable. 1 economical menner than through storage and high mervice pumping. it may 1 2 3. When fire flow requirements are set by a governmental allow fire flow to be considered in used and useful calculations for 2 authority, those requirements shall be the basis for determining the fire 3 components other than storage and high service pumping. However, any 3 flow component of used and useful. In such cases, as part of its rate 4 utility that receives an allowance for fire flow in used and useful 4 5 filing, the utility shall identify and file with the Commission a copy of calculations shall maintain the ability to provide adequate, reliable fire 2 6 the applicable governmental firs flow requirements. In all other cases, flow at all times in the future, unless it meets the requirements in 25-6 7 unless specific support is provided, the Commission shall consider a 30.432(5)(b)2 for adding fire flow capacity. For a utility meeting the 7 minimum fire flow demand to be 500 gallong per minute. (gpm) for single 8 requirements in 25-30,432(5)(b)2 for adding fire flow capacity, once the 8 family and 1,500 gpm for multiple family and commercial areas for a 9 ability to provide adequate, reliable fire flow has been achieved, such 9 10 duration of 2 hours for needed fire flows up to 2500 spm. (and 3 hours for ability shall be maintained from that point on. If a utility has 10 peeded fire flows of 3000 and 3500 gom. Such requirements shall be 11 previously received firs flow consideration in used and useful 11 12 satisfied without causing deterioration of water pressure below 20 peunds celculations but fails to maintain adequate. reliable capacity for fire 12 13 per square inch (psi). fighting (e.g. sells fire flow capacity), then the Commission may reduce L2 4. Inasmuch as Rule 25-30.432(5)(b) deviates from prior 14 the utility's rate of return by up to 30 basis points until adequate fire 14 Commission practice whereby an allowance for fire flow capacity in 15 15 protection is once egain maintained. 16 composite used and useful plant calculations was considered, the impact on 16 2. An allowance for fire flow shall be included in used and 17 useful calculations up to the capacity of the appropriate component. If those utilities affected by a future reduction to used and useful 12 18 percentages for source of supply and/or treatment plant due to such a utility cannot provide adequate, reliable fire flow and is requesting an 18 12 deviation from prior practice regarding fire flow allowance shall be 19 allowance for fire flow in used and useful calculations, the Commission 20 considered on a case by case basis. 20 shall require the utility to take the steps necessary to provide such fire 21 (c) Unaccounted for Water 21 flow capacity. In doing so, the Commission shall set a reasonable 22 To recognize conservation of vater as a fundamental and proper 22 timetable for compliance and may later reduce rates for that portion . 1. 23 concern of water system operation, water utilities are encouraged to 23 associated with allowed fire flow capacity if such requirements are not

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Ŧ	exercise good operational and economic management toward preventing
2	depletion and westeful use of this important natural resource. Good
3	modern water utility practice dictates that, wherever possible, all
4	customer services and plant output and plant uses be metered and
5	reasonable records be kept.
<u>6</u>	2. The Commission recognizes that some uses of water are readily
1	measurable and others are not. Each utility is encouraged to establish
ğ	procedures to measure or estimate the quantity of water used but not sold.
2	by cause, and to maintain documentation for those measurements and
10	<u>estimates.</u>
п	3. The Commission shall consider the amount of unaccounted for
12	water in determining used and useful plant percentages and shall allow the
12	American Water Works Association's (AWHA Manual M-8) design level of
14	leakage (2-3 percent plus the standard 10 percent for a maximum of 12.5
15	percent) without further explanation. The Commission may impute revenues
<u>16</u>	or reduce purchased power and chemical expenses where insdequate
17	explanation is given for unaccounted for water in excess of this secont.
18	(d) Infiltration and Inflow
12	1. The impact of infiltration and inflow on vestewater treatment
20	and collection systems shall be considered in determining both the
21	appropriate level of operation and maintenance expenses and used and
22	usaful plant nercentages.
23	2. The Commission recognizes as reasonable the Infiltration

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1	Specification Allowances set forth in Mater Pollution Control Federation
2	(WPCF) Manual of Practice No. 9. Absent sufficient justification to the
3	contrary, excess infiltration is defined as flows in excess of 500 gallons
4	per day (gpd) per inch diameter of pipe per mile (gpd/in. diam./mile) for
2	all gravity lines, including service laterals. Excessive inflow will be
<u>\$</u>	determined on a case-by-case basis if vertanted.
1	(a) <u>Cost/benefit Analysis</u> . The <u>Commission may order a utility to</u>
<u>\$</u>	perform a cost/benefic analysis to determine the acount of vater losses or
2	westewater infiltration and inflow that may be economically aliminated.
10	If the cost/benefit analysis is ordered by the Commission in the course of
11	evaluating a rate application, the actual or estimated prodent cost of the
12	analysis shall be recovered through the revenues authorized in thet rate
13	proceeding, and the cost shall be seorcized over five years. If the
77	analysis is prograd outside of a formal rate proceeding, the utility may
15	request the cost be recovered through a limited proceeding pursuent to
16	section 367.0822. F.S.
12	(f) Used and Useful Analysis
18	1. As a part of its rate filing, each utility shall provide a
19	determination of the used and useful percentage for each primary plant
20	account along with the supporting formulas and documentation.
21	2. In lieu of presenting syldence in support of used and useful
22	percentages, the utility may aloct to use the default formules in Rule 25-
22	20.432(6). F.A.C., for galculating used and useful percentages for water

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supply, treatment, pumping and storage equipment, and vastavater treatment and effluent disposel equipment. Documentation in support of requested used and useful percentages for a vater utility's transmission and discribution lines and a wastewater utility's pumping stations and collection mains (both gravity and force) shall be presented by the ucilicy.

(6) Used and useful default formulas. The appropriate units to be used are included with each default formula. Because of the unique nature of a water system's transmission and distribution lines and a wastewater system's pumping stations and collection mains (both gravity and force). the default formulas presented here do not address these items: however. as stated in Rule 25-30,432(5)(f)2, the utility shall present documentation in support of requested used and useful percenteres for these items.

(a) Small water systems (less then 1 million gallons per day (NGD) firm reliable capacity).

1. Small vator systems with adequate reliable finished water storage capacity to meet the local fire flow ordinances and to meet the peak hour demand of its customers shall use the following formulas:

- A. Water source of supply: (Maximum Day Demand + Margin Reserve - Excessive Unaccounted For Water)/Firm Reliable Cauacity (god)
- b. Water treatment souipment:

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1		(Maximum Day Demand + Margin Reserve - Excessive Unaccounted
2		For Mater)/Firm Religble Capacity (spd)
2	<u>e.</u>	Finished water storage:
4		(Equalization Volume + Fire Floy Requirement + Emergency
ş		Storage + Margin Reserve)/firm Reliable Capacity (gallons)
é	<u>a.</u>	<u>Water high service pumping:</u>
1		(Instantaneous Demand + Margin Reserve - Excessive Unaccounted
\$		For Water)/Firm Baliable Gapacity (spm)
2		or, if the utility chooses;
10		(Maximum Day Demand + Fire Flow Requirement + Margin Reserve -
11		Excessive Unaccounted For Vater)/Firm Reliable Capacity (gpm)
<u>12</u>	۵.	Other water facilities: 100 percent used and useful
13	2.	Small water systems with no storage facilities other than
14	hydrognous	tic tanks or with insufficient storage capacity to meet the
15	local fire	flow ordinances and to meet the instantaneous demand of its
16	<u>customers</u>	thall use the following formulan:
17	8	Water source of supply;
18		(Instantaneous Demand + Margin Reserve - Excessive Unaccounted
12		For Mater)/Pirm Baliable Gapacity (gpm)
20		or, if the utility can show it is the most economical way to
21	provide fi	e flow:
22		(Naximum Day Domand + Fire Flow Requirement + Margin Reserve -
23		Excessive Unaccounted For Vater)/Firm Beliable Capacity (gpm)

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<u>Þ.</u>	<u>Water treatment quipment:</u>	1		(Maximum Day Demand + Margin Reserve - Excessive Unaccounted
	(Instanteneous Demand + Margin Reserve - Excessive Unaccounted	2		For Mater)/Firm Reliable Geneatry (gpd)
	<u>for Water)/Firm Reliable Capacity (spm)</u>	1	<u>5.</u>	Finished water storage:
	or, if the utility can show it is the most economical way to	4		(Equalization Volume + Pirs Ploy Requirement + Emergency
<u>provide fi</u> :	ra flow:	\$		<u> Storage + Margin Reserve)/Firm Reliable Capacity (gallona)</u>
	(Maximum Day Domand + Fire Flow Requirement + Makrin Reserve -	Ĺ	d.	Mater high service pumping:
	Excessive Unaccounted For Water)/Firm Reliable Capacity (gpm)	1		(Peak Hour Demand + Margin Reserve - Excessive Unaccounted For
<u>s.</u>	Finished water storage: 100 percent used and useful (gallons)	£		<u>Mater)/Firm Reliable Capacity (gpm)</u>
<u>d.</u>	Water high service pumping:	2		or. if the utility chooses:
	(Instantaneous Demand + Margin Reserve - Excessive Unaccounted	<u>10</u>		<u> Haximum Day Demand + Fire Flow Requirement + Margin Reserve -</u>
	for <u>Matarl/Firm Reliable Gapacity (gom)</u>	щ		Excessive Unaccounted For Water)/Firm Reliable Gapacity (spm)
	or. if the utility chooses:	12	9. .	Other water facilities: 100 percent used and useful
	(Maximum Day Damand + Fire Flow Requirement + Margin Reserve -	11	2_	Large vater systems with no storage facilities other than
	Excessive Unaccounted For Water)/Firm Reliable Capacity (gpm)	14	hydro	pneumatic tanks or with insufficient storage capacity to meet
£	Other water facilities: 100 percent used and useful	15	<u>the l</u>	ocal fire flow ordinances and to meet the peak hour demend of
<u>(b)</u>	<u>larse water systems (1 HGD or greater firm reliable capacity);</u>	14	ite_c	waromers shall use the following formulas:
1.	Large water systems with adequate reliable finished water	12	6	Mater source of supply:
storage ca	pacity to meet the lucal fire flow ordinances and to meet the	18		(Reak Hour Demand + Margin Reserve - Excessive Unaccounted For
peak hour	demend of its customers shall use the following formulas:	12		Water)/Firm Reliable Capacity (gpm)
۵.	Water source of supply:	29		ar. If the utility can show it is the most economical way to
	(Haximum Day Dowand + Margin Reserve - Excessive Unaccounted	21	provide fir	a_flow:
	For Mater)/Firm Reliable Capacity (gpd)	22		(Maximum Day Demand + Fire Flow Requirement + Margin Reserve .:
<u>k.</u>	<u>Vater Treatment Equipment:</u>	22		Excessive Unaccounted For Mater)/Firm Seligble Capacity (spm)

CODING: Words underlined are additions; words in etruck-through type are deletions from existing law. <u>)</u>74

CODING: Words underlined are additions; words in struck through type are deletions from existing law.

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<u>ل</u> ار ا	Mater treatment soulpment:
	(Peak Hour Demand + Margin Reserve - Excessive Unaccounted For
	<u>Water)/Firm Reliable Capacity (gom)</u>
	or, if the utility can show it is the most economical way to
provide fi	tion:
	(Maximum Day Demand + Fire Floy Requirement + Margin Reserve-
	Excessive Unaccounted for Water)/firm Reliable Capacity (gom)
<u>e.</u>	Finished water storage: 100 percent used and useful (gellons)
<u>d</u>	Hater high service pumping;
	(Peak Hour Demand + Margin Reserve - Excessive Unaccounted For
	<u>Vater)/Firm_Reliable_Capacity_(gpm)</u>
	or, if the utility chooses:
	<u> Maximum Day Demand + Fire Floy Requirement + Margin Reserve-</u>
	Excessive Unaccounted For Nater)/Firm Reliable Capacity (gpm)
عـر	Other water facilities: 100 percent used and useful
(d)	<u>Yastevetet avateme:</u>
L	<u>Vastevater treatment edulpment:</u>
	(Yastewater Customer Demand + Margin Reserve - Excessive
	Infiltration and Inflow)/Permitted Gapacity (gpd)
2.	Effluent disugest facilities:
	(Vastaveter Customer Demand + Margin Reserve - Excessive
	Infiltration and Inflow)/Permitted Capacity (god)
3_	Other westewater facilities: 100 percent used and useful
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(7) Unless specific quantitative information indicates greater demands. a water system's Instantaneous Demand. for purposes of determining used and useful, will be calculated from the following charts which are from the U.S. Environmental Protection Agency Manual -Small Mater Systems Serving The Public".

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CODING: Words underlined are additions; words in struck through type are deletions from existing law. 11

FIGURE 3-3

INSTANTANEOUS DEMAND FOR RESIDENTIAL COMMUNITY WATER SYSTEMS



(Number of Connections vs Gallons Per Minute)





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Standards and Criteria for Design and Construction of Public Water Supply Systems to Service Residential Communities; Division of Health Services - Sanitary Engineering Section, State of North Carolina, 1974.

FIGURE 3-4

PEAK DEMAND FOR MOBILE HOME PARK WATER SYSTEMS

(Number of Connections vs Gallons Per Minute)

						Numbe	er of	Co	nnec	:tio	ns	200	300	
1	0	10	<u></u>	20	30	40	60		80	10	0	200	30	<u></u>
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Source:

e: Standards and Criteria for Design and Construction of Public Water Supply Systems to Service Residential Communities; Division of Health Services - Sanitary Engineering Section, State of North Carolina, 1974.





EXHIBIT NO. <u>96</u>

WITNESS: TERRERO

DOCKET NO. 950495-WS

APPLICATION FOR RATE INCREASE BY

SOUTHERN STATES UTILITIES, INC.

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

DESCRIPTION:

POP SSU Response to OPC Interrogatory No. 121 Pertaining to Economies of Scale Reports, Studies, or Other Documents

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FLORIDA PUBL	LIC SERVICE COMMISSK	DN .
NO950	195-WS EXHIBIT NO	96
COMPANY/		
WITNESS:7	129/56	
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SOUTHERN STATES UTILITIES, INC. RESPONSE TO REQUEST FOR PRODUCTION OF DOCUMENTS DOCKET NO.: 950495-WS

OPC

121

121

REQUESTED BY: SET NO: DOCUMENT REQUEST NO: ISSUE DATE: WITNESS: RESPONDENT:

1 121 07/18/95 RAFAEL A. TERRERO Charles E. Wood

DOCUMENT REQUEST:

Please provide any reports, studies, or other documents in the Company's custody or control which address the subject of economies of scale of the Company's storage, treatment, collection, and distribution systems, or the storage, treatment, collection and distribution systems water and sewer companies in general.

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RESPONSE:

None available.

23			0
0 OF			Invoice Tracking Log
8	Vendor Name:	Hartman & Associates, Inc.	SSU
Ц	Vendor Reference #:	95-145.00	SSU
AG	Project Description:	Economy of Scale Evaluation	SSU
0	Initiated By:	R. Terrero	

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FLORIDA PUBLIC SERVICE COMMISSION

10/27/95

EXHIBIT NO.

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INVOICE APPROVALS:

CHANGE ORDER APPROVALS:

INVOICE	INVOICE	INVOICE	DATE	APPROVED	A State	C.O.	DATE	APPROVED		C.O.
NUMBER	DATE	AMOUNT	APPROVED	BY	SHORE SHORE	NUMBER	APPROVED	BY		AMOUNT
1	5/26/95	\$ 3,443.50	6/9/95	R. Terrero	144647684	CONTRACT AMT	5/9/96	B. Armstrong	\$	44,710.00
2	6/23/95	\$ 9,668.50	7/5/95	R. Terrero	合印度的变形的	1				
3	7/21/95	\$ 6,563.52	8/14/95	R. Terrero	Link and					
4	8/18/95	\$ 8,748.50	9/15/95	R. Terrero	122.000家主					
5	9/15/95	\$ 4,885.50	9/26/95	R. Terrero	相關語言					
6	10/13/95	\$ 6,698.10	10/27/95	ARTEUR	A standard				L	
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TOTAL INVOICED TO DATE:		\$ 40,007.62		201	M.H.R.M.		CHANGE ORDER TOTALS:		\$	
REMAINING AMOUNT:		\$ 4,702.38			1. 114.03		CURRENT CONTRACT AMT:		\$	44,710.00

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APPENDIX

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