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BEFORE THE
FLORIDA PUBLIC SERVICE COMMISSION

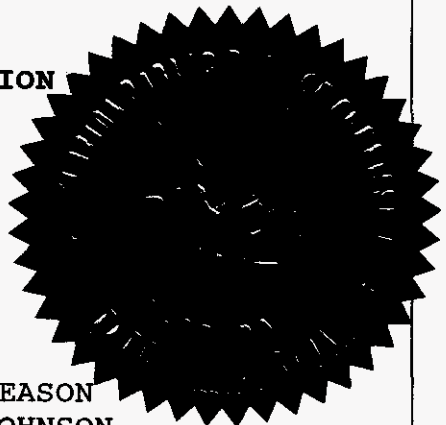
In the Matter of : DOCKET NO.

Application for a rate increase and : 950495-WS
 increase in service availability charges:
 by SOUTHERN STATES UTILITIES, INC. for :
 Orange-Osceola Utilities, Inc. in :
 Osceola County, and in Bradford, Brevard:
 Charlotte, Citrus, Clay, Collier, Duval, :
 Highlands, Lake, Lee, Marion, Martin, :
 Nassau, Orange, Osceola, Pasco, Putnam, :
 Seminole, St. Johns, St. Lucie, Volusia :
 and Washington Counties. :

SECOND DAY - EARLY AFTERNOON SESSION

VOLUME 8

Pages 783 through 863



PROCEEDINGS: HEARING

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

DATE: Tuesday, May 1, 1996

TIME: Reconvened at at 1:00 p.m.

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

REPORTED BY: SYDNEY C. SILVA, CSR, RPR
 Official Commission Reporter

APPEARANCES:
 (As heretofore noted.)

DOCUMENT NUMBER-DATE

04905 MAY-1996

FPSC-RECORDS/REPORTING

I N D E X

MISCELLANEOUS - VOLUME 8

ITEM	PAGE NO.
Public Counsel's Motion to Strike Testimony of Brian Broverman	785

WITNESSES - VOLUME 8

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Cross Examination By Mr. Reilly	790

P R O C E E D I N G S

(Hearing reconvened at 1:00 p.m.)

(Transcript follows in sequence from
Volume 7.)

CHAIRMAN CLARK: We're ready to go back on
the record. I had indicated previously that we would
take up the Motion to Strike the testimony of
Mr. Broverman. Mr. Beck, it is your motion. And I
understand it has already been argued once in front of
the Prehearing Officer. Do you want to add anything
to your written motion?

MR. BECK: I'll be glad to waive oral
argument and make it on the written motion.

CHAIRMAN CLARK: Okay. Mr. Armstrong.

MR. ARMSTRONG: Yes. As indicated
previously, I believe when the argument was made, I
wasn't here to discuss that before Commissioner
Kiesling, but there was a question in terms of what
testimony is this actually rebutting? And I knew
there was plenty of testimony that it was rebutting
and I just took a half hour and went through.

CHAIRMAN CLARK: Okay.

MR. ARMSTRONG: September 20, 1995, at
Jacksonville, Witness Herbank indicated, "I think if
SSU doesn't learn how to manage a company, they ought

1 to get out of the business and let somebody do it that
2 can."

3 October 3, 1995, Temple Terrace, Witness
4 Freund indicated, "These folks have an administrative
5 problem from the top down . . . what are they
6 currently doing to reduce fixed and operating costs?"

7 In Ocala on October 11, Witness Gypert,
8 G-Y-P-E-R-T, indicated, "Somebody had better find out
9 where we are putting this money."

10 In Sanford on October 12, 1995, Witness
11 Oranchik indicated, "If they need to cut money they
12 need to look at their management, you know, their
13 employees."

14 On January 30, 1996 -- I don't know which
15 area this was, but Witness Daundores said, "The cost
16 of doing business their way is astronomical." And he
17 was followed up by Witness Cowin, so I guess this is
18 Sanford, where she asked the PSC to "look at salaries
19 and benefits of SSU." This is about FAS 106.

20 In Stuart, February 1, 1996, Witness Van
21 Dien said, "None of the information I've seen . . .
22 shows me that SSU is cutting their expenses involved
23 in trying to make their profits better."

24 As I indicated, I just went through quickly
25 in the matter of a half an hour and picked those out.

1 I know there are other instances.

2 CHAIRMAN CLARK: Okay.

3 MR. ARMSTRONG: But, Madam Chair, what we
4 wanted to do, Witness Lock had indicated in her
5 prefiled direct that we did not have the actuarial
6 report and she advised the parties that were trying --
7 that we would be filing that. We did file that with
8 everybody in January when it was received in response
9 to a discovery request.

10 So what we wanted to do through
11 Mr. Broverman was provide an actuarial report to the
12 Commission as well as he had testimony in here that
13 said Southern States has taken significant steps to
14 control and reduce costs. And actually, he states
15 that, "It's apparent that SSU is among the
16 frontrunners in its efforts to control postretirement
17 costs."

18 We thought it would be good for the
19 customers and the Commission to realize that, you
20 know, in addition to the other testimony that exists,
21 Mr. Broverman could provide testimony to rebut some of
22 the information requested by and statements made by
23 the customers in the customer service hearings.

24 CHAIRMAN CLARK: Okay. Mr. Beck, briefly?

25 MR. BECK: Yes, briefly.

1 I think Mr. Armstrong has made my case for
2 me. That if you take those comments from customers at
3 the hearings stating a generalized dissatisfaction
4 with the way Southern States runs its business and use
5 that to put in what purports to be a rebuttal from an
6 actuary on FAS 106 expenses, it's a sham that they are
7 trying to perpetrate on the Commission with this.

8 There has been no testimony by any of the
9 intervenors addressing the FAS 106 expenses of the
10 Company; nonetheless, they're trying to slip this in
11 as rebuttal when it is not rebuttal to anything other
12 than generalized statements from the public that they
13 are dissatisfied with Southern States.

14 If you accept their argument, that will
15 allow them to as purported rebuttal address anything
16 in the entire case and try to buttress their case and
17 put on issues that no one else addressed and do it at
18 the last hour. You shouldn't allow them to do that.

19 CHAIRMAN CLARK: Okay. I have reviewed the
20 testimony and the motions and I have to say that I am
21 in agreement with the motion that it should be
22 stricken. I think it is a tenuous link between the
23 general suggestions by customers of inflated MFRs and
24 other issues of mismanagement supports the conclusion
25 that further information on just one expense item is

1 appropriate.

2 As Mr. Beck indicated, that in effect would
3 open up the door for every expense to be relitigated;
4 in effect, giving a second bite of the apple.

5 I would further state that I don't think it
6 can be inferred that other expenses are reasonable
7 just because one particular one is shown to be
8 reasonable. All of them have to be evaluated on their
9 own basis.

10 And I think you have impliedly acknowledged
11 that this is in fact supplemental by the statement
12 that Dale Lock indicated the 1995 SSU actuarial
13 valuations would be forthcoming.

14 So it is my view that it is not appropriate
15 rebuttal and that it is inappropriate to allow you to
16 select one category to use actual expenses as opposed
17 to budget expenses in the use of a projected test
18 year. And for that reason, I will strike the rebuttal
19 testimony of Mr. Broverman.

20 MR. ARMSTRONG: Thank you, Madam Chair.

21 CHAIRMAN CLARK: Thank you.

22 We are on cross examination of Mr. Hartman.
23 Go ahead, Mr. Reilly.

24 - - - - -

25

GERALD C. HARTMAN

1
2 resumed the stand as a witness on behalf of Southern
3 States Utilities, Inc. and, having been previously
4 sworn, testified as follows:

CROSS EXAMINATION

5
6 BY MR. REILLY:

7 Q Good afternoon, Mr. Hartman.

8 A Good afternoon.

9 Q First I would direct your attention to
10 Pages 5 and 6 of your prefiled direct testimony. On
11 these pages, you advance the proposition that the
12 PSC's used and useful methodology does not encourage
13 planning, environmental responsibility and economies
14 of scale; is that correct?

15 A The strict use of the -- that is correct
16 when the strict use of a formula is applied. That is
17 a lot count method.

18 Q Isn't it correct that the PSC has always
19 allowed the costs caused by the Department of
20 Environmental Protection regulations as long as it was
21 required through consent orders, notices or inspection
22 reports?

23 A I don't have the knowledge of all the
24 situations, so I can't answer that from that
25 standpoint. I have been involved in rate cases like

1 in Sarasota County where 100% of the regulatory
2 requirements were included as 100% used and useful.

3 Q So, generally, specific requirements imposed
4 by the DEP are acknowledged in the PSC orders?

5 A I can't say so in the PSC orders, I can say
6 so in the Sarasota County orders. The PSC many times
7 looks at just consent orders, notices of violation and
8 requirements from that standpoint versus the statutory
9 requirements that if you just comply with those then
10 you default into this formula, which may not provide
11 for regulatory requirements for threshold sizing.

12 Q But my question relates to those consent
13 orders and notices and so forth, that in fact when
14 they are -- when those requirements are imposed by
15 those means, by the DEP, that the PSC acknowledges
16 them and passes those costs on to the ratepayers; is
17 that generally correct?

18 A In some rate cases that I have reviewed,
19 yes, that has been correct.

20 Q So as long as DEP provides written notice of
21 the requirement, do you believe the PSC will disallow
22 those costs?

23 A First, what was your question?

24 Q The question is, if DEP actually makes a
25 specific requirement of the Utility and the Utility

1 carries out that requirement, do you believe the costs
2 associated with meeting that requirement would be
3 disallowed by this Commission?

4 A It has been. DEP requires looping in
5 certain instances and the lot count method does not
6 allow the recovery of that investment.

7 DEP requires two wells; and many times the
8 Commission has not allowed recovery of the full
9 capacity of those facilities.

10 DEP has required 20% of reserve. Mary
11 Clark's order to the City of Cocoa is an example of
12 that, August and October 26 of 1990. Various
13 administrative cases they require margins of reserve
14 of 20% and yet this Commission does not provide for
15 that recovery.

16 Q But my question relates to when DEP issues
17 specific consent orders -- for instance, in your case
18 you mentioned looping. If they said this system does
19 not meet requirements, you must provide a looped
20 system within some time certain, would the Commission
21 not acknowledge that requirement and allow the Utility
22 to pass those costs on to the ratepayers?

23 A In an enforcement action, yes, the answer to
24 your question is yes. Typically I've seen that in the
25 cases that I've been involved in, but relating to

1 enforcement action versus a regulatory standard and
2 regulatory requirement puts and incredible burden on
3 FDEP to issue enforcement letters to get investment
4 into rate base, which doesn't make a lot of sense to
5 me.

6 Q Are you familiar with the term AFPI or
7 allowance for funds prudently invested?

8 A Yes.

9 Q Isn't it correct that the PSC allows AFPI
10 charges to recover the carrying cost of nonused and
11 useful utility plant in service?

12 A When applied for, sometimes, yes. When
13 applied for, sometimes, yes.

14 Q That is available to utilities to recover
15 their carrying costs of plant in service that has been
16 deemed not used and useful; is that correct? It's up
17 to the Utility to seek that relief and to be granted
18 that relief?

19 A That is one mechanism, yes, to --

20 Q If the utilities have good planning for
21 phased developments, then the risk of having nonused
22 and useful plant in service would be significantly
23 reduced, is that not correct?

24 A No. That's exactly wrong. Because what
25 happens, if you plan appropriately, as it just showed

1 in the economies of scale aspect, your risk for
2 investment is great because the most cost-effective
3 solution for the customers long term would give you
4 very low used and useful analysis.

5 Q I understand your example about the
6 economies of scale with the different sized plants.
7 But, for instance, on collection and distribution
8 lines, doesn't a utility have a choice -- when I say
9 "phased development," to put in -- to phase in the
10 collection and distribution lines as they project the
11 need for those lines will be there as the number of
12 customers that they think they will be coming on line?

13 A To answer areally, your answer is in an
14 areal extent?

15 Q Right.

16 A Okay. If you don't build it in that area,
17 then you don't have a risk for nonused and useful, my
18 answer to that, of course, if you don't make an
19 investment, you don't have any risk, of course.

20 Q On the subject of peak hour demands for
21 storage and pumping and maximum day demands for
22 treatment and supply on Page 8 of your prefilled
23 direct, I guess I'd draw your attention particularly
24 to Lines 10 through 12. Didn't you state that,
25 "Storage and pumping is designed to meet peak hour

1 demands while treatment and supply sources must meet
2 only maximum day demands." Is that correct?

3 A When storage is available. That means all
4 of the peak hour demands, yes, that is the case.

5 Q Okay. Isn't it correct that engineering
6 design criteria require treatment and supply sources
7 to meet maximum day demands and fire flow should not
8 be included?

9 A When you have adequate storage for fire flow
10 storage, it wouldn't be included, of course. With
11 adequate storage. But only in those cases.

12 Q Isn't it correct that it is not
13 cost-effective to use treatment plant or supply wells
14 to meet fire flow demands?

15 A Oh, that's totally false. Because when you
16 look at the vast majority of the systems in the state
17 of Florida, most of them are just wells with a
18 chlorinator and a hydropneumatic tank. The cheapest
19 storage in the state of Florida is the aquifer when
20 the aquifer is available. It is the largest storage
21 reservoir we have and the most prolific.

22 A much more expensive situation is when you
23 have those resources is to build these other
24 facilities. That's why you see in the various systems
25 that you will have multiple well and hydropneumatic

1 systems the wells meet peak hour instantaneous peak,
2 and that's the design. Because they use the aquifer
3 for the storage, so you don't have to buy and build or
4 invest for storage when the resource is fresh, clean,
5 good water.

6 Now, when, as I testified before, when the
7 resource has to be treated with softening, reverse
8 osmosis, or has to be aerated and you have to build
9 the storage tank anyway, then yes, you get the dual
10 use of treatment and storage and it is more
11 cost-effective in that fashion. But it should be
12 limited only in those resource circumstances that need
13 treatment.

14 Q But is it cost-effective to require this
15 large amount of supply and treatment to provide for
16 this large amount of instantaneous demand and then
17 have this much larger sized plant having to be carried
18 in rate base to provide the average daily flow that is
19 otherwise called upon?

20 A Well, first, you have confused water and
21 wastewater. It is called upon as maximum daily flow
22 for water.

23 Secondly, when you consider the plant,
24 you're only talking about the supply component and
25 chlorination. And if you look on the cost or

1 investment and you look at the economy of scale, you
2 can build with a ton cylinder a
3 half-million-gallon-per-day plant or a
4 10-million-gallon-a-day plant for the difference of
5 \$2,000 or \$3,000. It is so much cheaper to do it in
6 that fashion. It is the most prudent investment by
7 far. All my entire report shows that, every
8 professional engineer that has practiced in this state
9 would tell you the same thing.

10 Q Earlier I thought you said the engineering
11 standards did not call for supply and treatment to
12 provide fire flow; is that correct?

13 A Only when there is sufficient storage.
14 Remember, I said when you have storage, then the
15 storage tank provides for the fire flow in that
16 situation because you made that investment. And then
17 you don't have to have fire flow from your wells when
18 you have sufficient storage. But when storage is not
19 sufficient, the least cost approach is to get it from
20 your wells.

21 Q Now, does the Ten States Standards or AWWA
22 manuals, do any of these support your contention that
23 without the storage that it is engineeringly sound to
24 ask the supply and water treatment facilities to
25 provide a fire flow provision?

1 A Yes. If you look at the DEP standards, DEP
2 provisions for small water systems, USCPA Manual of
3 Practice for Small Water Systems, et cetera, et
4 cetera, there is a litany of them out there.

5 Q Let me direct your attention to Page 9,
6 where you talk about maximum day demands should
7 exclude line leaks, firefighting. In fact,
8 particularly on Lines 2 through 4, you state, "I agree
9 that max day demands should be adjusted for natural
10 occurrences such as line breaks and firefighting but
11 only if adequate storage is available to meet the
12 requirements of such condition." Is that correct?

13 A That's correct.

14 Q For systems without adequate storage, are
15 you saying that it is all right to have line breaks or
16 leaks included in the max day demand?

17 A When you don't have storage it's a moot
18 point. Again, to educate, when you have adequate
19 storage, you look at the storage to meet those
20 requirements. When you don't have adequate storage,
21 the design condition, again, for the wells, is not
22 average day, it is not maximum day, it is a peaking
23 condition. And the peaking condition would then flow
24 without the storage back to the well.

25 In fact, many well pumps and motors are

1 sized for fire protection because you don't have an
2 intermediate facility, there's no investment in
3 between, to meet that condition. So of course.

4 Q So these unusual occurrences should be
5 included in the max, the max day conditions?

6 A No, it is a different design condition. The
7 wells are not based on the maximum day when you don't
8 have adequate storage, that's what I testified to
9 earlier.

10 The wells are changed to a peak condition
11 and therefore are included. The emergency storage,
12 you include the emergency storage requirements that
13 otherwise would be provided by a storage tank in the
14 capacity of the well. Because we don't have the tank,
15 you still have to meet the emergency, you still have
16 to fight a fire.

17 Q On Page 10, on Lines 2 through 8, you talk
18 about critiquing the average five max day demand used
19 by Public Counsel. You stated that the average five
20 max day demand produces a lower used and useful. Is
21 that correct?

22 A That's correct.

23 Q Isn't it true that using the average five
24 max day demand level can level out the effect from
25 known or unknown water loss or breaks during the max

1 day demands?

2 A Well, that's a hypothetical. The
3 hypothetical is, of course, yes. Whenever you average
4 something, you always average out the event; so,
5 theoretically, of course.

6 But in this case, I believe the Staff and
7 specifically Mr. Bliss can testify to the fact that
8 they eliminated the abnormal events; so, therefore,
9 they use the actual data.

10 Q Those that they knew about.

11 A Well, you only can do what you know, that's
12 correct.

13 Q Well, wouldn't, though, the ability to
14 average the five very max days create an opportunity
15 to level out aberrations that would not have occurred
16 but one single time -- a spike on the graph, as you
17 might say -- that would give you a more accurate
18 reflection of what a max day should be?

19 A No. When the -- absolutely not. The five
20 day averaging effect, the way that is advocated here
21 by Public Counsel, creates a situation that you never
22 can recover a portion of your investment that's
23 required by regulation to be made because you can
24 never hit the maximum that you have to meet.

25 You can't design a water system serving the

1 hospital or any other type of facility or home and say
2 you are going to meet it -- five days out of the year
3 you're not going to meet the needs. You know, you
4 have to meet every day's needs 24 hours a day and the
5 peaking condition. It's a public health, safety and
6 welfare issue and it is something that is a
7 requirement of the State of Florida. It is a
8 regulatory requirement.

9 Q But wouldn't you assume that the five max
10 days would be approximately the same, the same amount
11 of flow, anyway, without considering an aberration;
12 and that the averaging of those five max days
13 shouldn't produce a number that is so significantly
14 different than the single max day unless there was, of
15 course, some aberrant event?

16 A Well, that's a statistical analysis. I've
17 done that on larger water systems in the Tampa Bay
18 area where the average of the five days -- in doing my
19 work for the West Coast Regional Water Supply
20 Authority we looked at all the water and wastewater
21 systems in the Tampa Bay region, three counties.

22 My analysis of demand conditions of all
23 those systems in the 1970 through 1978 period --
24 that's eight years going way back, water conservation
25 wasn't in effect back then -- was that the five

1 average days or peak week, we used seven days versus
2 five, came in around 82% of the maximum day. So it
3 would be 12% would not be typically utilized. But
4 that was back in a regional system in West Coast. I
5 have not done it for these systems.

6 Q Excuse me, the last?

7 A I have not done it for these systems.

8 Q But you would expect the results to be even
9 closer using the five max days as opposed to seven you
10 just referred to?

11 A It would be a little bit closer but not
12 much.

13 Q On Page 10, beginning on Line 10, you state
14 that, "It creates," it being the five max days,
15 "creates a direct disincentive for proper facilities
16 sizing. It sends an economic signal to the utility to
17 reduce the size of the facility." Is that correct?
18 Is that your position?

19 A Which page?

20 Q We're on Page 10, Line 10, starting on
21 Line 10, your direct.

22 A Page 10, Line 10. (Pause)

23 I think you are reading from a different
24 direct than I am. It says here that "would disallow
25 investment to meet regulatory requirements, standard

1 design criteria, and the Commission's own rules."

2 Q I'm looking at Page 10, Line 10. And it
3 says, "As I indicated in my comments earlier, it
4 creates a direct disincentive for proper facility
5 sizing. It sends an economic signal to the utility to
6 reduce the size of its facility." have I got a
7 different version of your testimony?

8 A Okay, that's Line 12. Are you talking about
9 Line 12?

10 Q Well, it starts on 10 and ends on 12.

11 A Okay. "It creates a direct disincentive for
12 proper facilities sizing and it sends an economic
13 signal to the utility to reduce the size of the
14 facilities despite the design requirements, so as to
15 reduce the risk of not recovering the investment for
16 proper sizing."

17 I think that's what it sends to management,
18 definitely. I mean, I have had clients, I serve 27
19 different investor-owned utilities in the state of
20 Florida and four of the top five. And I have had
21 people talk to me and say, "You know, we can't recover
22 it all." And it's a constant battle between the
23 engineers to put everything in.

24 It's improper to have a regulatory
25 requirement and not be able to recover the regulatory

1 requirement.

2 Q Isn't it correct, though, that the utilities
3 have options to avoid risk by having developers
4 contribute the capital costs through prepaid CIAC or
5 advances to construction? That these are some of the
6 options that utilities can use to reduce these risks
7 and help support these economies of scale that you
8 have been talking about?

9 A That, theoretically and hypothetically, that
10 is a possibility. I have to admit that, yes, that is
11 a possibility. But in reality, how many developers
12 come in to pay for the next size increment of the
13 central utility plant? And the reality of that is it
14 is remote.

15 Q Could I direct your attention to Page 16 of
16 your testimony, where we begin talking about reuse
17 facilities and whether they are 100% used and useful
18 or not. You talk about Chapter 367.0817(3) that talks
19 about all prudent costs of a reuse project shall be
20 recovered in rates.

21 In your understanding of this statutory
22 requirement, does the statute expressly say that all
23 reuse facilities are 100% used and useful?

24 A It does say that you recover 100% of the
25 cost of prudent investment, yes.

1 Q That wasn't my question.

2 A And the prudence of the investment is
3 considered, you know, five times. First, the
4 consultant looks at the prudence of the investment --

5 Q So --

6 A -- and as I responded in deposition and to
7 you, people don't go and take money and just put it in
8 the ground for reuse, it's imprudent.

9 Q So recover --

10 A Secondly, the client reviews it. Thirdly,
11 the water management district approves it under the
12 consumptive use permit aspects.

13 So it is reviewed for prudence those three
14 times, as well as the financing institution that they
15 borrow the money from; and finally here in this
16 Commission they review it, and there's a review for
17 prudence by the FDEP. So you have five or six reviews
18 of prudence of reuse investment. And I think I
19 haven't seen a project that people have been investing
20 money in reuse that has been imprudent.

21 Q So your response in terms to whether it is
22 recoverable in rates, you do acknowledge in that
23 response that prudence obviously would be a statutory
24 requirement before recovery; is that correct?

25 A The word "prudent" is in there, yes.

1 Q I mean, if a company builds reuse facilities
2 that are underutilized, can the PSC determine that
3 such expenditures are not prudent? Is that within
4 their purview?

5 A Utilization is not one of the prudency
6 aspects as I understood the water management districts
7 in using this rule. I was involved a little bit in
8 water management district involvement in this; and
9 what they were looking at, and the state legislature
10 was looking at, was to get reuse in the state of
11 Florida. And it is a beneficial reuse for this state.

12 And the incentive for doing that wasn't that
13 when you build the facility and Day One you only have
14 50% of utilization and therefore it's 50% utilized and
15 therefore you only get 50% return, no. It was for
16 100% recovery. It was clarified later on after
17 comments by the Florida Legislature.

18 Moreover, when I serve every single one of
19 my public governments, 67 cities and counties that our
20 firm serves statewide, 100% -- 100% -- of that reuse
21 investment is recovered in rates and charges to the
22 customer.

23 Q Now, that was a no with an explanation? To
24 my question? That it is not within the purview of
25 this Commission to try to evaluate the degree that the

1 facilities are utilized; and if in fact a utility
2 builds, spends \$1 million on a reuse facility that
3 there's no one to use that facility, that they
4 couldn't deem that facility as being an imprudent
5 expenditure and not recoverable in rates or not
6 recoverable totally in rates because of its
7 underutilized? That wouldn't be within the PSC's
8 purview?

9 A That becomes a legal question on what the
10 rights and duties of the PSC Commission are. And I
11 would think there's a very broad discretion with the
12 Commission.

13 I'm not an attorney, I couldn't respond to
14 that.

15 Q I'm really not asking a legal question so
16 much as whether in your judgment the degree of
17 utilization of a facility is part of this issue of
18 prudence. I think you answered no, it shouldn't be?

19 A And that is all the discussion --

20 Q Is that your opinion?

21 A -- that I have been involved in rulemaking
22 of that rule, in the clarification of that rule that
23 was reissued just a few years -- you know, just the
24 next session later it was clarified. Because there
25 was some discussion about whether it would be 100%

1 used and useful or not, and they strengthened the
2 language to say 100% of the recovery of investment.

3 Q Let me explore one other thing. There was a
4 little discussion of some discussion between a
5 Commissioner and an earlier witness about what
6 constitutes reuse and whether -- because the term was
7 being very broadly applied by certain SSU witnesses
8 where they said "recharge" was somehow being equated
9 with "reuse."

10 Would you give me your opinion of what
11 constitutes reuse? Would you consider a perc pond a
12 reuse asset or would you consider it a recharge
13 utility asset?

14 A Well, it depends on the use of perc pond.
15 In the abstract I can't even answer your question;
16 because the perc pond will be part of facilities, a
17 part of facilities serving a function. So if you give
18 me the example or give me the question with some
19 specificity.

20 Is a perc pond that provides for wet weather
21 storage part of the reuse asset? The answer is yes.
22 Is a perc pond that provides for emergency storage a
23 reuse asset? Yes. Is it for substandard recycle?
24 Yes. For withdrawal back and reuse? Yes. Multiple
25 ponds in a recharge like rapid infiltration system?

1 Yes. So, you know.

2 Q Well, I guess the question is, if you are --
3 if we are talking about disposal of effluent, if the
4 effluent is given a greater level of treatment so that
5 it can actually be applied as a replacement for water
6 source for irrigation purposes, that's my common
7 understanding of reuse.

8 Is your understanding that reuse is
9 something broader than that? That's the nature of my
10 question.

11 That if it doesn't have an impact on
12 reducing that customer's use of water, potable water,
13 that it would not qualify as a reuse asset.

14 A Okay. You are defining reuse as reducing
15 the potable water demand.

16 Q I'm attempting to, yes.

17 A Okay. And a perc pond as part of a reuse
18 system that has some portion that reduces the potable
19 water demand would then qualify in your analogy? I'm
20 trying to understand your question.

21 Q I just wanted you to explain what you --

22 A Okay. I think, I think -- and I'm an older
23 sanitary engineer, so I think of reuse, which is
24 called beneficial public, unlimited public access
25 reuse, as being sprayed and reducing some type of

1 irrigational demand or potable water demand.

2 You said just potable water demand. It's
3 really both, it's the resource utilization.

4 In contrast, if you have a single perc pond
5 to a wastewater treatment plant, it is considered
6 recharge reuse by the state of Florida. In the
7 classic definition of demand reduction, it doesn't
8 reduce demand.

9 Q I think that's the term I was looking for
10 was "public access."

11 A That's just one classification of reuse,
12 there are four of them.

13 Q What do you think was envisioned by the
14 legislature when it used the language it did in the
15 statute I quoted earlier?

16 A The purpose --

17 Q Were they speaking of public access reuse or
18 were they talking about recharging the aquifer?

19 A My understanding from the water management
20 district work that I was involved in was it was a
21 definition of reuse pursuant to the FDEP definition of
22 reuse, which includes all four classifications as the
23 state defines reuse.

24 Q Let me direct your attention to Page 17 of
25 your prefiled direct where you make references to some

1 of the DEP letters.

2 CHAIRMAN CLARK: Before you leave that,
3 Mr. Reilly, let me ask some questions just so I'm
4 clear.

5 You indicated that you think the statute in
6 403-when-ever-it-is having to do with putting in reuse
7 facilities meant facilities more than the public
8 access reuse?

9 WITNESS HARTMAN: Yes.

10 CHAIRMAN CLARK: What are the other? You
11 said there were four. Can you give them to me?

12 WITNESS HARTMAN: There's recharge reuse,
13 which means --

14 CHAIRMAN CLARK: Okay.

15 WITNESS HARTMAN: -- you know, I'd have to
16 look at. There is a, there is unlimited public access
17 reuse. There's limited public access reuse. And
18 there's demand substitution reuse.

19 CHAIRMAN CLARK: All right. Tell me,
20 explain to me the characteristics of each of those.

21 WITNESS HARTMAN: Okay. For just simply
22 recharge reuse, you would have an infiltration system
23 and its recharging the aquifer to benefit the water
24 resources of the state. The design standard for that
25 is lower, it may be secondary treatment. The

1 requirements on Class I reliability are not there.

2 Then there's demand substitution reuse,
3 which is the next level in my book. And that is reuse
4 for a specific purpose, such as industrial cooling
5 water or some other type of facility. And the design
6 standards for that vary for the application applied.
7 And I consider that a beneficial reuse.

8 Then there is the standard of nonpublic
9 access reuse. And that's where you are allowed to
10 irrigate --

11 CHAIRMAN CLARK: Wait a minute, you have now
12 introduced another term. You gave me recharge,
13 unlimited public access, limited public access --

14 WITNESS HARTMAN: Well, nonpublic access,
15 limited public access is the same thing. There's
16 limited public access --

17 CHAIRMAN CLARK: Hold up. Give me the four
18 categories again.

19 WITNESS HARTMAN: Unlimited -- at the very
20 top is unlimited public access.

21 CHAIRMAN CLARK: Okay.

22 WITNESS HARTMAN: That means you can go play
23 golf, reuse water can hit your golf ball, you can
24 clean your golf ball, you can have it hit you
25 sometimes. I don't like it that much, but -- and you

1 can play in it, basically.

2 CHAIRMAN CLARK: Okay.

3 WITNESS HARTMAN: Then you have what we call
4 limited public access reuse, where you are reusing the
5 effluent but you shouldn't come in contact with it
6 because of the total suspended solids treatment level
7 is not high enough for proper and complete high level
8 disinfection.

9 Then there is --

10 CHAIRMAN CLARK: Wait a minute, give me an
11 example of that.

12 WITNESS HARTMAN: That type of reuse would
13 be to a sod farm, to irrigation below edible crops,
14 down below that the spray does not hit it. To that
15 kind of thing.

16 CHAIRMAN CLARK: Okay.

17 WITNESS HARTMAN: Then there is demand
18 substitution for industrial purposes or cooling water.
19 And that has a variety of standards.

20 CHAIRMAN CLARK: All right.

21 WITNESS HARTMAN: Then there's recharge
22 reuse, and that's from the infiltration basin system
23 that may have -- you may create these infiltration
24 basins to push the water down the aquifer of fresh
25 water to keep salt water back and then be able to

1 withdraw from that same aquifer. That's our biggest
2 storage tank is the aquifer, to pull back out of it.

3 CHAIRMAN CLARK: All right. Now, getting to
4 The Statute 403 that allows -- is it 403 that allows
5 for the full recovery of reuse?

6 MR. REILLY: It's --

7 WITNESS HARTMAN: 403.064(10).

8 CHAIRMAN CLARK: All right. 403.?

9 WITNESS HARTMAN: 064(10).

10 CHAIRMAN CLARK: All right. Is it your view
11 that that statute calls for the recovery of reuse
12 facilities in any of those categories?

13 WITNESS HARTMAN: In those four categories,
14 yes.

15 CHAIRMAN CLARK: And it is not limited to
16 unlimited public access?

17 WITNESS HARTMAN: That is correct.

18 CHAIRMAN CLARK: And on what basis do you
19 draw that conclusion?

20 WITNESS HARTMAN: From my work with the
21 water management districts and involvement in this.

22 CHAIRMAN CLARK: Can you be more specific?

23 WITNESS HARTMAN: We've discussed -- because
24 I made the segregation between that and a simple
25 singular perc pond.

1 CHAIRMAN CLARK: Okay.

2 WITNESS HARTMAN: A singular perc pond just
3 for disposal purposes is not recharging the aquifer.
4 There is a distinction.

5 CHAIRMAN CLARK: All right. Thank you, go
6 ahead, Mr. Reilly.

7 Q (By Mr. Reilly) And you do acknowledge as
8 we go up the chain to limited to unlimited public
9 access that it is a higher level of treatment and more
10 expensive treatment necessary to produce effluent that
11 can come in contact with the public; is that correct?

12 A Yes, it is. As you -- depending on.
13 There's the demand substitution can be very expensive
14 also. But the limited public access versus unlimited
15 public access, it is more expensive for the unlimited
16 public access.

17 Q And while there's an obvious public benefit
18 to recharge in the aquifer, you can see the
19 conservation implications that the legislature would
20 want to encourage for actual demand substitution where
21 the level of treatment would be, although quite
22 expensive, would actually substitute for potable
23 water; is that correct?

24 A Well, I thought the legislation was relative
25 to water resources of the state. And to limit it to

1 solely potable water I don't think that's the intent
2 at all.

3 Q On Page --

4 CHAIRMAN CLARK: Can I ask another question?

5 MR. REILLY: Go ahead.

6 CHAIRMAN CLARK: What among those four
7 categories be would be demand substitution?

8 WITNESS HARTMAN: The unlimited public
9 access, in certain case the limited public access, and
10 the demand substitution for industrial.

11 CHAIRMAN CLARK: Okay.

12 WITNESS HARTMAN: The recharge aspect also
13 is considered if you look at the -- and this gets
14 technical and I hate to do this to everybody. But
15 it's called the free added surface pressure gradient
16 in the aquifer. By pushing the water down here it
17 thickens the fresh water lens that we get water out
18 of. One foot of these perc ponds that pushes the
19 fresh water in gives us 40 feet in our wells for
20 supply.

21 CHAIRMAN CLARK: But it doesn't substitute
22 demand.

23 WITNESS HARTMAN: It doesn't substitute
24 demand but it increases the fresh water resource of
25 the state.

1 CHAIRMAN CLARK: Okay.

2 Q (By Mr. Reilly) Concerning these letters we
3 were talking about, DEP letters, on Page 17, is DEP
4 the state agency that determines used and useful
5 issues for the privately owned utilities in Florida?

6 A What was the first part of that? Somebody
7 determines the used and useful issues?

8 Q DEP. I'm sorry.

9 A No.

10 Q Okay. and has PSC ever acknowledged
11 Mr. Harvey's 100% used and useful statement about
12 reuse facilities?

13 A I don't know.

14 Q Isn't it correct that DEP often implements
15 stringent regulations on private utilities without
16 fully considering the rate impact to customers? Or
17 would you even have an opinion about that?

18 A I don't think -- first, to my knowledge, the
19 only rule promulgation for DEP is on environmental
20 protection and doesn't segregate out or discriminate
21 on the utility, whether it is investor-owned or
22 publicly-owned or somehow. It is just for utilities
23 to comply with for environmental protection of the
24 state.

25 So your question, I would have to answer it

1 no because of how you formed the question.

2 Q Does Mr. Harvey's 100% used and useful
3 opinion on reuse facilities represent the current
4 official opinion of DEP?

5 A To my knowledge.

6 Q Do you know where this opinion is codified
7 in terms of any rule or written policy statement that
8 you could offer the Commission?

9 A I believe that it is 403.064(10).

10 Q It is the statute you're speaking of?

11 A It is in the statute.

12 Q But there's no statement from the agency
13 interpreting that statute that conforms to your
14 opinion?

15 A I do not have a statement relative to a used
16 and useful practice because I don't believe the FDEP
17 does used and useful work like that.

18 Q Okay.

19 A That's this agency, I believe.

20 Q Could I direct your attention to Page 19 of
21 your testimony. And more particularly on Lines 1 and
22 2 of that page, you state, "It is simply excess
23 capacity required by regulations and therefore used
24 and useful." This is DEP-required excess capacity.

25 Isn't it correct that the PSC has also set

1 up AFPI charges for the utilities to recovered nonused
2 and useful excess capacity? I guess I asked you that
3 before. These are methods that the PSC has
4 implemented to allow utilities to recover nonused and
5 useful excess capacities?

6 A Well, first, you have take that a little bit
7 out of context. We're talking now about margin of
8 reserve, we're changing topics.

9 Q That's correct. That's correct.

10 A And we're also saying that the DEP's rules
11 are showing you have to have the five-year period in
12 the planning process through construction for your
13 margin of reserve and therefore you must have in your
14 plant sufficient excess capacity to meet those
15 requirements at all times it is held that way.

16 Now that has become a regulatory
17 requirement. So in my way of reading everything I've
18 seen with this Commission, that a regulatory
19 requirement is considered 100% used and useful. I
20 thought. I thought you were saying that before.

21 Q No, I don't believe I did. But I did say
22 that this perceived excess capacity, that there are
23 different ways to allocate that cost. And I wanted
24 you to acknowledge if you have knowledge about it that
25 there was this mechanism, AFPI, that can allocate

1 these costs and allow the Utility to recover these
2 costs.

3 A I'm not a rate design person for this case.
4 I'll just -- other than what I answered before on
5 AFPI, I'll just stay with that.

6 Q To probe a little bit more on this DEP Rule
7 62-600.405, I'll push you forward to Page 27 of your
8 testimony, particularly on Lines 6 and 7. If you are
9 there, you state, "Although the rule," this rule I
10 just quoted to you, "does not directly state a utility
11 must maintain capacity necessary to meet demand for
12 the next five years."

13 As to that statement, isn't it correct that
14 the Rule 62-600.405 requires wastewater utilities to
15 submit capacity analysis reports at a maximum
16 five-year intervals or shorter intervals of four,
17 three, two or one years are sometimes required? Is
18 that not what that rule requires?

19 A The rule requires, that's a part of the
20 rule, yes. A part of the rule does require -- a
21 component of the rule -- to answer your question.
22 Yes, a component of the rule does require the
23 preparation and submittal of the capacity analysis
24 report once the facility reaches 50% of its capacity.

25 Q Now this rule, of course, makes no mention

1 of margin reserve, obviously. But does it,
2 underpinning this whole concept of margin reserve,
3 where in this rule does it actually say a five-year
4 capacity? I understand it says you should be planning
5 in all these planning stages, but where does it say
6 the utility should maintain this five-year excess
7 capacity? Could you direct me to that exact language,
8 help me out?

9 A In the rule itself, there's no, right in
10 that section of the rule it doesn't specifically state
11 the utility must maintain a five-year excess capacity
12 or --

13 Q But does it say even four?

14 A -- or any --

15 Q Or three?

16 A -- or any number in the rule --

17 Q Okay.

18 A -- because the rule is not written that way
19 and the application of the rule is not that way. So
20 of course it doesn't say that.

21 So, you know, your question is, is it
22 required? And I'm representing to you I think if you
23 pull another professional engineer that practices in
24 the state here, put him in my chair, he'll say the
25 same thing to you, that yes, you must maintain the

1 five-year requirement or you may start making an
2 investment.

3 Q Or you are in the process of planning for
4 capacity? Isn't that what the rule says?

5 A Yeah, the very first step is planning, of
6 course, in every process.

7 Q So the requirement of the rule is that you
8 continue to monitor and understand what capacities you
9 have; and when you reach these thresholds, you begin
10 reporting to us what your plans are for providing for
11 additional capacity as you get closer to full
12 capacity? Isn't that what this rule says?

13 A The rule says at 50%, yes, you start that
14 planning process and reporting process, yes.

15 Q So how do you take that huge leap from this
16 planning process into a DEP requirement --

17 A It's how it is applied, sir.

18 Q -- to -- for this large amount of capacity
19 that this requirement must be now recognized by the
20 PSC to impose a cost on current ratepayers to maintain
21 a capacity which you are somehow inferring out of this
22 rule?

23 A I am not inferring it. What it is is the
24 application of the rule. You must have, it's a
25 five-year window, to implement the capacity. So

1 therefore, it is an application of that rule and it
2 would result in a five-year margin of reserve.

3 Q If we could move on to the subject of
4 fill-in lots on Page 31. And particularly I direct
5 your attention to lines 13 through 16, where you say,
6 "Lot count methodology does not account for those
7 fill-in lots, unconnected lots located between
8 connected lots, which may never be built on by reason
9 of zoning, the owner's purchase of the fill-in lot
10 adjacent to the one upon which he or she has built, or
11 other reasons."

12 Normally, lots in a subdivision are
13 developable and don't have zoning problems or else
14 they wouldn't be platted lots; is that correct?
15 Wouldn't that normally be the case?

16 A Normally? I have seen zoning problems after
17 you have had a plat; but normally, that's not the
18 case. You normally don't have zoning problems after
19 the plat unless you are changing the product, if you
20 will, associated with that development.

21 Q Why would you not normally -- it's true, I
22 agree with your statement, you normally don't have
23 zoning problems after a plat. Wouldn't the proper
24 zoning be one of the many elements that would go into
25 the approval of the plat in the first place?

1 A Yes.

2 Q And even a zoning change after plat has
3 already been approved would be grandfathered in, would
4 it not?

5 A In some instances.

6 Q Would it be fair to say that fill-in lots
7 that can't be built on or for whatever reason won't
8 ever be built on account for a very small percentage
9 of most developments? Do you have an opinion about
10 that?

11 A Typically it is a smaller percentage. But
12 it proves a point that, having anything like that, you
13 never can get to 100% used and useful in that
14 development -- as well as is it, using the lot count
15 method, is it the utility owner's risk for development
16 for a phase-in period?

17 Your AFPI only gives five years. You look
18 at a lot of developments that are in this case, they
19 were built in the 60s; so the five-year period in the
20 AFPI would have been quenched 25 years ago and the
21 carry for the last 25 years would never be realized.

22 Q You said because of this small percentage of
23 lots that might for whatever reason not be built on,
24 you could just never reach that 100% figures?

25 A That's true.

1 Q Isn't it true, however, that this Staff and
2 the PSC has historically when you get to almost
3 virtually 100% used and useful that virtually every
4 time they will round it and make it 100% used and
5 useful. Is that not correct?

6 When you get that close to 100%, do they --
7 have you seen recommendations and orders come out of
8 this Commission, "You are 95% used and useful, you are
9 99% used and useful"? Have you seen that? Is that
10 standard practice of the Commission?

11 A I can't -- see, you're asking me something
12 probably you should ask the PSC Staff what all the
13 different statistical analyses of their orders have
14 been.

15 But I have seen when you consider the
16 economy of scale and you allow engineering judgment
17 versus the formula, which the Commission has done
18 historically, then yes, there's a rounding. Because
19 the margin reserve, if it is 80%, should be rounded up
20 to 100% used and useful due to the facilities.

21 But the fill-in lot, that misses the whole
22 purpose of the fill-in lot theory. No lesser of a
23 facility would have been required to serve that
24 customer.

25 Now, for me to run a line between me and

1 you, counselor, the fill-in lot theory would say that
2 where Brian Armstrong is, there's no pipe, therefore,
3 I can't even serve you.

4 See, the situation is, it is should be the
5 minimum facility. There's a threshold that used to be
6 used in this Commission, a threshold of getting that
7 service to you should be considered 100% used and
8 useful to get to you, such that you have service
9 because there's a requirement to the utility to
10 provide service to these customers.

11 Now, oversizing would be at risk. I mean,
12 oversizing the facility bigger than you need and that
13 incremental investment, sure, is at risk. But
14 providing the service is fundamental.

15 Q Did I understand your answer to my question
16 that the small number of lots that might cause the
17 utility to otherwise not become 100% used and useful,
18 but in your -- let me ask you this question. You
19 previously were a Staff person at the Commission?

20 A No.

21 Q Years ago? Never? But you have practiced
22 before the Commission for a number of years?

23 A For a period of time, yes.

24 Q Okay. And from your personal experience it
25 is your testimony that it would be rounded up and that

1 the utility would not be kept from being 100% used and
2 useful because of a little small scattering of lots
3 that somehow for whatever reason did not get built on?

4 A It depends on the Staff reviewing engineer
5 sometimes.

6 Q Is that a yes or no and the explanation? I
7 didn't get the yes or no.

8 A I've seen it case-by-case. Sometimes when
9 you have a Staff engineer that does provide judgment
10 versus the application rotely of the formula, yes, it
11 is rounded. But when the formula is solely utilized,
12 there is no rounding.

13 Q Can you quote --

14 A So it depends on who you get.

15 Q -- quote me ever an example where it was
16 with a small amount of fill-in lots that it was not
17 rounded up, any specific example where that was ever
18 done?

19 A I didn't come prepared today, but I think
20 you probably could go back to the prior rate case
21 order in '91 or something like that and find it. I
22 can go back and do that analysis for you and do a
23 late-filed on it.

24 Q That's all right. If I could direct your
25 attention to your rebuttal testimony? On Page 2,

1 beginning on, focus your attention on Lines 7 through
2 10. You speak of, "These witnesses, Mr. Bidy and
3 others, argue against SSU's requested used and useful
4 percentages and in so doing disregard the economies of
5 scale I cited in my direct testimony." Is that
6 correct?

7 A That's correct.

8 Q Does Mr. Bidy's testimony ever expressly
9 mention the term "economies of scale"?

10 A That's the point I'm making.

11 Q Well, I understand that, but --

12 A Disregarded it.

13 Q But he did mention it?

14 A What?

15 Q But he did not -- he never stated and
16 opinion by OPC that we were opposed to a utility
17 utilizing the economies of scale in designing systems;
18 is that correct?

19 A He disregarded the issue. And I think, you
20 know, for the customer -- as I showed earlier and in
21 my rebuttal testimony -- it's very clear that the
22 economy of scale protects the customer and the economy
23 of scale actually gives the customers lower rates. I
24 would think since you represent the public you would
25 be in favor of economy of scale.

1 Q Indeed we are. The question is, who do
2 those economies of scale, how should you allocate that
3 benefit? Should it be allocated to all the customers
4 where the customers and the utilities benefit from
5 that economies, or will the current ratepayers receive
6 no benefits from the economies of scale?

7 If those customers don't come on line, if
8 those customers come on line at a much slower rate
9 than projected by the utility, those economies are
10 never realized; is that correct? The only way that
11 you can keep your per unit cost --

12 A No, that's not correct.

13 CHAIRMAN CLARK: Excuse me just a minute.

14 I need to ask both of you not to interrupt
15 each other because it is difficult for the court
16 reporter. So, Mr. Reilly, will you make it clear when
17 you have ended your question? And likewise, please
18 don't interrupt his questions.

19 MR. REILLY: Thank you.

20 WITNESS HARTMAN: Yes, ma'am.

21 Q (By Mr. Reilly) Go ahead.

22 A That is not correct. I showed even in our
23 analysis at 1% growth rate there is an economy of
24 scale. It could be much less than -- it can be
25 realized way out in a period of time.

1 The allocation of costs should be down to
2 the threshold facility necessary to provide the
3 service, and that's what I showed in the graphs. That
4 should be in the rate base. And then move with the
5 demand.

6 If there's no increase in demand, then it is
7 a flat curve and it doesn't get up to the investment;
8 and you're right, the company is at risk for that
9 differential. But it should not be artificially at
10 greater risk because of an adjustment of used and
11 useful. That's improper.

12 Q Let me direct your attention to Page 7 of
13 your rebuttal, particularly Lines 17 through 19. You
14 speak of these tables in your study portraying the
15 long-term cost savings to the customer with the larger
16 tank as compared to the smaller tank.

17 Now, SSU proposes to require existing
18 customers to pay for a larger, either the whole or a
19 larger portion, of the cost of this larger tank
20 through an imputation of the margin reserve and the
21 utilization of this hydraulic analysis; isn't that
22 correct?

23 MR. FEIL: Excuse me. Did you say,
24 "imputation of margin reserve"?

25 MR. REILLY: Well, we're considering it

1 imputing margin reserve, yes, imputation of margin
2 reserve. We've always viewed it as an excess capacity
3 for future ratepayers.

4 Q (By Mr. Reilly) But we'll just say applying
5 a margin reserve and the utilization of this hydraulic
6 analysis, that this would impose the higher cost on
7 the customers?

8 A No. There's no higher cost from the
9 threshold facilities required for service. I mean,
10 what you have to have, you have to start with, "What
11 is the regulatory requirement?" And that's, if you
12 went to that '82 memoranda, the first thing said it
13 must meet all rules and regulations in the state of
14 Florida. So you start there.

15 Your basic pipeline from me to you, let's
16 say it is a lateral sewer, is a eight-inch gravity
17 sewer. That's the minimum I can build to meet the
18 regulations to get service to you.

19 Now, if I oversize that to a ten-inch, that
20 incremental cost, the differential cost in the
21 investment, should be at risk --

22 Q In the example --

23 A -- but not the basic cost for the eight-inch
24 system to you.

25 To put that in numbers so it is easier to

1 comprehend, for me to build an eight-inch lateral from
2 me to you, let's say that's 60 feet, may cost, I'm
3 going to round up a little bit, \$200. A ten-inch
4 might cost \$220. But the difference in the capacity
5 may be 60%. So 60% of \$220 is only \$132. So now
6 we're looking at only recovering \$132 for a \$200
7 investment just to serve you.

8 So that's why it is wrong to go behind
9 regulatory requirement with this used and useful
10 application and deprive the Company of the proper
11 return.

12 Q But in the example that we were talking
13 about about the two tanks, it seems logical to me that
14 although -- let's say you have a customer base that
15 requires and has an immediate need for 20,000 gallons
16 per day; but through the engineering studies and
17 cost/benefit analysis, it was deemed that the tank
18 should be 100,000 gallons per day. And that certainly
19 it would produce a per unit cost far less than a
20 25,000-gallon-per-day facility.

21 And the point is that I was making about,
22 well, that's great, the economies of scale are
23 realized when and if those customers come on line to
24 get it to that level where it is in fact producing
25 100,000 gallons per day. But if those customers do

1 not come on line, that per unit cost is never
2 realized. Because, obviously, that 100,000 gallons
3 per day capacity is there and the capital cost
4 associated with that investment is there; and yet,
5 year after year with 1% or 0% growth, your per unit
6 cost is greater than if you had not sought those
7 economies of scale. Isn't that correct? You have to
8 have --

9 A No, it is not.

10 Q -- eventually you have to get the customers
11 on line to support that investment.

12 A Not -- I guess I didn't fully communicate,
13 no -- the answer to your question is no because I
14 didn't fully communicate to you the application
15 method. And possibly in showing directly to the
16 Commissioners and your not seeing the charts, that's
17 the problem here.

18 What I'm saying is that, okay, in your
19 example, a 20,000 gallon tank is all the people need
20 and then all of a sudden there's no growth ever again,
21 okay?

22 Q Uh-huh.

23 A And the utility puts in a 100,000 gallon
24 tank, okay? Your example.

25 What I'm saying is the cost for a 20,000

1 gallon tank, which is the minimum facility required to
2 serve those customers, be in rate base and considered
3 used and useful. The differential cost between that
4 20,000 gallon tank and the 100,000 tank is at risk and
5 does benefit -- if no growth, there's no benefit to
6 the present customer other than emergency service,
7 redundancy, having those types of things available,
8 which is a hard-to-quantify benefit.

9 But other than those benefits -- in a
10 wastewater treatment plant, you can show a lot of
11 other benefit. But on a tank, other than those
12 benefits, there's no other real benefits to the
13 existing customers.

14 No growth, you hold that constant across
15 there, and yes, the Company made a bad choice or
16 whatever and you don't get the recovery.

17 But the difference is not 20% of the price
18 of the 100,000 gallon tank, which might be \$160,000,
19 let's say; 20% of that price is only \$32,000 in rate
20 base.

21 Well, the 20,000 gallon tank might cost you
22 \$80,000. How can the present customer put the Company
23 at risk for the minimum service for that present
24 customer? That's not right.

25 Q Well --

1 A The regulatory requirements don't provide
2 for that.

3 Q On your analogy, though, then you would not
4 give the current ratepayers any benefit from the
5 economies of scale --

6 A If there --

7 Q -- no immediate benefit. To the extent that
8 the customers come on line and the unit costs go down,
9 then the current plus the future customers would get
10 some benefit from these economies of scale. But the
11 current ratepayers under your scenario would receive
12 no benefits from the economies of scale; is that
13 correct?

14 A In a storage tank financially under a
15 no-growth situation from a pure cost standpoint --

16 Q Right.

17 A -- that is correct.

18 Q Okay. Let me direct --

19 A But that's a very unusual example.

20 Q Okay. Let me direct your attention to
21 Page 10 of this rebuttal testimony, Lines 1 through 4.
22 And you're talking about the economic signal sent by
23 the intervenors to the Commission is to build plant in
24 small increments, ignore economies of scale and bear
25 inordinate risks for even threshold sizing.

1 Don't utilities have choices to make
2 developers of future customers contribute to the
3 construction costs for lines and plants, reducing the
4 risk to the utility?

5 And I guess you answered that before and
6 said yes, they have that, but in the real world
7 situation it doesn't work that way? Is that pretty
8 much your answer?

9 A It's remote for the total entity. I mean,
10 the developer may contribute for his first phase of
11 the subdivision or may contribute the lines right in
12 the subdivision, something like that. But when the
13 utility is serving not just this subdivision but the
14 whole area, the developer doesn't pay for incremental
15 sizing in the central utility plant. That doesn't
16 happen.

17 Q But, of course, all of our examples you have
18 given us are utilities who are going to make these
19 decisions, economies of scale decisions.

20 But really what we are dealing here in this
21 rate case is that SSU chose to bear these risks; that
22 SSU went out and bought a number of systems that have
23 sparse customers, low density developments and high
24 used and useful figures. And now with this rate case
25 you're coming to the Commission and saying, you know,

1 is it really fair to ask the customers to pay for
2 these risk decisions after the fact?

3 A Well, if you -- first, I don't understand
4 that they are paying for risk decisions after the
5 fact. I mean, the way the used and useful used to be
6 applied there wouldn't be this risk. It's only now
7 how it is being applied you are creating the risk.

8 It is almost like a pendulum. At one time
9 it was in the middle; and there was engineering
10 judgment and economy of scale was considered and
11 threshold sizing was considered and the minimum
12 facilities to serve the customer was considered, all
13 in the used and useful. Now it has gone to, "Well,
14 I've got a 100 lot subdivision, there's one person out
15 there, so all the facility out there is 1% used and
16 useful."

17 You know, it's a whole different way of
18 looking at things.

19 Q On this same page on Lines 8 through 11, you
20 say, "To take advantage of the economies of scale, the
21 minimum margin reserve period should be seven years."
22 Isn't it correct that to increase the margin reserve
23 will offset the benefits of the economies of scale for
24 existing customers and they will be forced to pay
25 higher rates?

1 A Well, when you look at -- and what I said
2 there is it is based on our studies. When you look at
3 the 3% companywide growth rate, the answer is no, long
4 term there's a significant savings to the customers.

5 Initially there may be a slightly higher
6 rate due to the margin reserve being provided; but
7 long term, the customer saves quite a bit in
8 facilities sizing and reaping the economies of scale.

9 So the answer to your question is no, the
10 customer actually long term -- because that service is
11 perpetual. When you have a meter and sewer lateral to
12 a home, when they connect to the system, they have
13 that service perpetually. That's forever in the
14 future. So long term for that customer -- even in a
15 short term thing, 20 years, 15 years, that kind of
16 thing -- that customer is saving money.

17 Q But isn't it correct that SSU bought a lot
18 of existing systems which have significant excess
19 capacities, especially the Deltona systems; is that
20 not correct?

21 A That's not correct.

22 Q It's not correct that those systems didn't
23 have --

24 A Oh, what are you -- are you talking about
25 the treatment plants and the water supply facilities?

1 Absolutely not. No, that's totally in error.

2 Q Talking about the distribution and the water
3 lines, the --

4 A Oh, for a minor component of them, that's
5 correct. If you picked out a little component, that
6 is correct.

7 Q It's a little component, the distribution
8 and collection?

9 A Well, it depends on what -- you look at all
10 the different components of the system.

11 COMMISSIONER GARCIA: Excuse me, but are you
12 speaking about the full system, or are you speaking
13 about the Deltona system? Because now you guys have
14 confused me. What in particular are you speaking of?

15 WITNESS HARTMAN: I'm speaking of --

16 COMMISSIONER GARCIA: The Deltona system?

17 WITNESS HARTMAN: Well, I was talking of the
18 total statewide system. Then if you look at
19 capacities of all the plants and capacities of all the
20 facilities systemwide, you said all the acquisitions
21 and all the systems.

22 Q (By Mr. Reilly) Well, no, the question
23 actually was these Deltona systems.

24 A I'm sorry, I misunderstood.

25 Q And the thrust of the question is SSU did

1 not design these systems but now SSU is asking credit
2 on excess capacities because of economies of scale.
3 Is that not correct?

4 A That is not correct. Because all the
5 economies of scale is bolstering or bolstering or
6 backing up the three- and five-year margin reserve
7 periods. We're only asking for one year margin
8 reserves in the lines. That's totally incorrect.

9 It's showing this is what should be the way
10 we're going is a better way. And also to cut back a
11 three- and five-year margin reserve doesn't make sense
12 because the economy of scale shows the
13 cost-effectiveness would give you a seven-year margin
14 reserve. It is better for the customer for facilities
15 sizing.

16 So it is bolstering, in the MFRs there is no
17 economy of scale direct curve calculation there. It
18 bolsters the three- and five-year margin reserves to a
19 minimum of seven, should be the first step.

20 Q This keeps expanding. We were at five, now
21 we're at seven. If seven serves the customers so
22 wonderfully, would ten serve them even better?

23 A It depends on the asset.

24 Q How many years of margin reserve capacity
25 would you like current ratepayers to pay where they

1 would receive all these benefits that you are talking
2 about?

3 A Again, it's case-by-case and the various
4 assets being provided. I mean --

5 Q System-by-system, do you mean?

6 A Case-by-case, facility-by-facility, you
7 would look at it. I mean, case-by-case. But overall,
8 systemwide, I think we're looking at the first step,
9 three-year margin reserve for water treatment
10 facility, five-year for wastewater treatment
11 facilities and effluent disposal, and reuse at 100%
12 used and useful, and lines at one year.

13 Q Isn't it unfair to ask existing customers to
14 pay for excess capacities which Southern States
15 probably acquired at a discount price?

16 A I don't understand, I'm not a -- I don't
17 understand your question. This might be a question
18 better for an acquisition adjustment witness. I'm an
19 engineer.

20 Q Isn't it correct that margin reserve was
21 originally set up by the PSC to accommodate near
22 future growth?

23 A And variability in demand, I would think.
24 The fluctuations in existing customer demand should be
25 considered also in the margin reserve.

1 Q Is it your testimony that a five- to a
2 seven-year margin reserve period represents in your
3 judgment near future growth?

4 A I believe we show in the case three- to
5 five-year definitely, five-year for certain, because
6 in the comp planning aspects we have to look at having
7 sufficient facilities for the five years. And the
8 seven years it shows economically appropriate.

9 Q Directing your attention to Page 11,
10 Lines 11 through 16, you talk about the Commission's
11 goals should be influenced by economies of scale and
12 efficient service at an affordable price. Is that
13 correct?

14 A Sure.

15 Q Now do you think that efficient service at
16 affordable prices can be achieved by forcing existing
17 customers to pay for substantial amounts of nonused
18 and useful plant? Or is I guess the way you get
19 around that is just by calling it used and useful
20 through the hydraulic analysis; is that correct?

21 MR. FEIL: I'm sorry, I didn't understand
22 the question --

23 A I don't understand the question.

24 Q (By Mr. Reilly) Well, how can the PSC
25 achieve affordable prices while allowing five- and

1 seven-year margins reserve which will substantially
2 increase water and wastewater rates?

3 A Okay. You get it through the --

4 Q For current customers.

5 A You get it through the sizing of the
6 facilities. As long as you size it for a larger
7 facility, you get the economy of scale benefit.

8 As you can see in the data presented in my
9 rebuttal as well as on those charts, differential in
10 cost, the unit cost, can be 100%. So now you would,
11 if you take away that incentive or that savings in
12 investment, then you are actually causing the
13 customers to pay more money.

14 You are far better off having the incentive
15 for that investment of a larger facility -- just like
16 cities, counties, not-for-profits, they are not
17 regulated by this Commission. Long-term, affordable
18 prices, that should be the goal of this Commission. I
19 agree. That's exactly what it says.

20 MR. REILLY: Wait one second, please.

21 CHAIRMAN CLARK: While they are consulting,
22 I had a question. I think it was in your rebuttal you
23 talked about the 1.3 and the 2.0. I forget exactly
24 what it has reference to.

25 WITNESS HARTMAN: Peaking factors.

1 CHAIRMAN CLARK: And on the one hand the
2 Public Counsel suggestion at the minimum 1.3. I
3 understood your testimony to be at the maximum 2.0
4 given the size of the facilities?

5 WITNESS HARTMAN: That is correct. I can
6 substantiate that. The 1.3, there's no small system
7 that I know in the state of Florida.

8 CHAIRMAN CLARK: I understood you are saying
9 a smaller needs a larger percentage -- I mean a larger
10 system needs a smaller percentage?

11 WITNESS HARTMAN: That is correct. Also
12 understand where that range came from, from the Manual
13 of Practice for 10,000 and bigger communities.

14 When you get to these smaller facilities,
15 the peak hour to maximum day ratios can be 3 very
16 easily. In fact, I have reports from other cities
17 that were smaller like Zellwood and other smaller
18 cities showing that the peaking factors, the City of
19 Hawthorne was 3.0., Melrose -- 630 people or
20 customers. Melrose, 430 customers, very similar to a
21 lot of our systems at SSU, 2.9. Highland Park, 400
22 customers, 2.5. Zellwood, peak hour average ratios
23 2.1, customers 340.

24 CHAIRMAN CLARK: What is that again, the
25 peak hour ratio?

1 WITNESS HARTMAN: The peak hour to maximum
2 daily ratio. For Ocoee, 5,900 customers, you're
3 talking about a 2 ratio. So.

4 CHAIRMAN CLARK: But am I correct that you
5 were suggesting using the 2.0 ratio?

6 WITNESS HARTMAN: That is correct.

7 CHAIRMAN CLARK: And as I understood your
8 rationale, it was because most of the plants are small
9 plants?

10 WITNESS HARTMAN: That is correct.

11 CHAIRMAN CLARK: Would it make any sense to
12 do it on a plant-by-plant basis and then average it?

13 WITNESS HARTMAN: That can be done.

14 CHAIRMAN CLARK: You obviously don't think
15 it should be done, if you say it can be done.

16 WITNESS HARTMAN: Well, in these systems,
17 the vast majority, if you look at all the customers,
18 the vast majority of the customers are in the smaller
19 sized systems. And even in -- and these are smaller
20 sized systems based on AWWA. You consider these
21 systems large systems or A Class systems that AWWA
22 considers the smallest. So --

23 CHAIRMAN CLARK: So even our Class A
24 facilities or systems, you would -- under AFWA they
25 would be considered small systems?

1 WITNESS HARTMAN: Yes.

2 CHAIRMAN CLARK: Okay.

3 WITNESS HARTMAN: Like Ocoee, 5,900
4 customers connections, almost 6,000 connections, would
5 be an A Class system for you. It is considered a
6 small system --

7 CHAIRMAN CLARK: What is the breakdown then
8 in systems that are AFWA --

9 WITNESS HARTMAN: AWWA, American Waterworks
10 Association. They look at population and --

11 CHAIRMAN CLARK: Do they look at population
12 or customers served?

13 WITNESS HARTMAN: Population served. They
14 do it on a population basis. And they take them from
15 10,000 up to 10 million, such as New York City, that
16 kind of thing.

17 CHAIRMAN CLARK: So is it 10 million, is
18 that the 1.3 is typically a 10 million customer or
19 population served system, that the ratio is 1.3?

20 WITNESS HARTMAN: No, the typical for 1.3 --
21 well, you would think it would be about 1.3 for that,
22 but let me give you some Florida examples.

23 City of Jacksonville is 1.4, that serves
24 600,000 customers. Pinellas County water system
25 serves 1.5 million people, the peak hour to maximum

1 daily ratio is 1.5.

2 CHAIRMAN CLARK: Okay.

3 WITNESS HARTMAN: To give you some feel.

4 CHAIRMAN CLARK: Thank you.

5 Q (By Mr. Reilly) Let me direct your
6 attention to Page 20 of your rebuttal testimony. And
7 here you talk about Mr. Bidy's view of fire flow.
8 And you speak of fire flow test results are not a
9 filing requirement, facilities are sized to provide
10 the service, fire service.

11 Though the MFRs do not require fire flow
12 records, isn't SSU still required to prove the
13 provision of fire flow before the customers are
14 required to pay for it? Would that be correct in your
15 judgment?

16 A If they filed for it, you know, the hydrants
17 are there, the pumps are there. I don't understand
18 your question. It's there. So, I mean, prove it, how
19 do you prove it?

20 Q Prove that the flow is there that would be
21 sufficient to provide the fire flow that the people
22 are being charged.

23 A Well, you could do that. I mean, you could
24 go out and have a lot of fire hydrant tests; that's
25 pretty expensive on each system. That would drive way

1 up the cost of regulation. It could be done, but it's
2 there and the fire departments prove it.

3 Q Well, you say it's there. I understand that
4 there are some systems that the lines are sufficiently
5 big to possibly handle some type of fire flow but
6 there are no hydrants to deliver that fire flow. Is
7 that correct? Or is that not your understanding on
8 some of these systems? And yet the customers are
9 still being charged a fire flow provision.

10 A I don't know of a system that does not have
11 a hydrant that we're requesting fire flow of.

12 Q Okay. On Pages 20 and 21, you speak of
13 pumper trucks and you talk about, "Pumper trucks
14 commonly used in rural areas which SSU serves have the
15 ability to fight fires." Is this kind of fire flow
16 provision acknowledged by any of the fire marshals
17 that you are aware of? This type of fire flow?

18 A Fire flow, is it recognized?

19 Q Is it recognized by any fire marshals or any
20 of the regulations that you are aware of, the pumper
21 truck?

22 A Relative to fire marshals, is it recognized
23 that that type of fire flow can be provided through a
24 pumper truck, the answer is yes.

25 The regulations, is it their minimum

1 standard below 20 PSI, the answer is no.

2 You asked two questions.

3 Q Okay. Well, thanks for the clarification.

4 Isn't there a potential to create a vacuum
5 in the distribution system when pumper trucks are
6 pulling water which may let the pollutants get into
7 the system?

8 A Oh, there's a potential for vacuum. But on
9 every pumper truck there's a pressure gauge on the
10 suction side of that pumper truck in downstream
11 hydrants, the typical practice of rural fire
12 departments, and they will break it. I mean, they
13 understand that, too. And there are safety provisions
14 to make sure that doesn't occur.

15 Q If the system just does not have enough
16 water to provide firefighting, can you still expect a
17 pumper truck to function correctly?

18 A Yes. Because the pumper truck also
19 typically holds a reservoir of water; and with the use
20 of whatever is there, plus the reservoir combined, it
21 will fight a fire. In fact, many fires are fought
22 that way.

23 Q And if you don't have enough storage in this
24 reservoir, then obviously it wouldn't perform; is that
25 correct?

1 A Well, after your storage is gone, it
2 performs to a lesser extent. But it still performs to
3 whatever water is in the system.

4 Q But is that what people are paying for when
5 they are paying for additional capacity of fire flow
6 in the lines, that this truck is going to drive up and
7 provide the water? Is that what you are envisioning
8 in fire flow provision in some of these small rural
9 systems?

10 A No. You've now taken something and added it
11 to something else and asked me another question that's
12 not what I said.

13 Q Okay.

14 A The situation is the fire flow facilities
15 are in place. And your hypothetical was that there is
16 no water there. Well, then you're not having the
17 service. If you don't have the service at all, then
18 of course the hypothetical is it doesn't work.

19 But since the water is there, the pumper
20 trucks do meet the demand and therefore they should
21 pay for the service.

22 Q My question wasn't that there was no water,
23 there was just inadequate flow to provide this added
24 measure of -- added service of fire flow, fire
25 protection. That's my example. It's not that there's

1 no water there.

2 And then the damage done to a system when
3 you bring a truck in and try to suck water out at a
4 great rate can do damage to the system, I guess is the
5 nature of my question. And of course you did say --

6 A I have never -- I have never seen a
7 situation where you have six-inch pipes with a pumper
8 truck that has a nozzle three-and-a-quarter inch that
9 could suck the total system dry. That doesn't happen.
10 So your hypothetical, even though it is theoretically
11 possible, in reality never happens because you have a
12 three-quarter-inch coupling that goes on a six-inch
13 system.

14 Your example doesn't make any sense in
15 reality.

16 COMMISSIONER GARCIA: Just so I could follow
17 you better, could you tell me where you are getting
18 at?

19 MR. REILLY: Where am I getting?

20 COMMISSIONER GARCIA: Where are you taking
21 this? Because I --

22 MR. REILLY: Well, we're taking it, the
23 issue is there have been systems where a fire flow
24 provision is being charged to the customers and
25 there's some question in our mind whether they are

1 really getting the service they are being charged. I
2 think even in our rebuttal testimony -- we don't have
3 rebuttal -- in our direct testimony we are even going
4 to be making some adjustments to --

5 We in discovery had asked for proof of the
6 provision of fire service. They did provide it for a
7 few of the systems and didn't for many others. So to
8 the extent that fire flow provision is actually there
9 and available and being provided to the customers,
10 then they should bear that cost. When it is not, then
11 we are wanting adjustments.

12 COMMISSIONER GARCIA: Your point there is?

13 MR. REILLY: About these rural systems that
14 we don't think it's going to work quite like it's
15 being suggested by Southern States, that these trucks
16 are going to pull in to these inadequate systems that
17 have inadequate flows. That all sorts of bad things
18 can result from this ostensible fire flow protection
19 that people are getting in rural areas. That's as far
20 as it goes on that.

21 Q (By Mr. Reilly) Moving along to Page 22,
22 Lines 12 through 14, again on this issue of fire
23 protection, you're talking about fire protection
24 without storage tanks. You state, "If firefighting
25 service is needed, there usually is a fire well pump

1 or two or more wells which together provide fire
2 service"; is that correct?

3 A That's correct.

4 Q Does any engineering guideline or manual
5 suggest using groundwater wells for firefighting?

6 A Yes.

7 Q And you can't -- you just say there were a
8 bunch of them, but could you give us even one here
9 today?

10 A Sure, the NSPF Fire Protection Guide --

11 Q NSPF?

12 A National, yeah, it's the Fire Protection
13 Manual.

14 Q All right.

15 A Provides for services off lines, services
16 off storage tanks, services off wells, services off
17 all kinds of different facilities. That is the Red
18 Book.

19 Q That number on that particular NSPF Fire
20 Guide?

21 A That's the name of it, it's the Fire
22 Protection Manual.

23 Q But you don't have any particular citation?

24 A It's in in manual, I didn't come here
25 memorized --

1 Q That's fine. That's fine.

2 Do insurance companies accept this type of
3 fire protection?

4 A Yes. ISO in Jacksonville provides as long
5 as you have auxiliary power to a well supply, yes,
6 they do provide for that fire service protection from
7 a well. In fact, the City of Jacksonville has one of
8 the highest fire flow -- or the lowest fire flow ISO
9 ratings from ISO in Jacksonville.

10 Jacksonville Utilities has a 2 rating and I
11 think Orlando Utilities Commission has a 3 rating,
12 some of the lowest ratings in the state. The City of
13 Jacksonville has some fire protection from some wells
14 before they got all their reservoirs in. Now they
15 have more reservoirs in Jacksonville. But
16 historically they did provide fire protection from
17 there and it was inspected by Insurance Services
18 Offices but auxiliary power was provided.

19 Q On the same page, different subject, I guess
20 we're talking about Lines 18 through 19, comparing
21 single maximum day versus average five max day demand,
22 you state that the single maximum day water demand is
23 the minimum design requirement; is that correct?

24 A For a treatment facility with storage, yes.

25 Q With storage. Isn't it correct that in

1 design the maximum day demand is projected from some
2 average flow data, historic average usage, or estimate
3 with a peaking factor?

4 A It can be, or could be of record. Depends
5 on the records of the system.

6 Q Okay. On the very next page over on
7 Lines 17 through 19, Page 23, now you state, "SSU has
8 excluded known unusual events such as line breaks from
9 the maximum days used in the analysis."

10 How can the PSC be sure that there are no
11 unknown leaks in your single maximum day demand?

12 A Well, they can't know that there's any
13 unknown leaks, because we don't know them, we can't
14 know. So the question is of course the PSC can't know
15 if there's anything unknown.

16 But if you have the operators there daily
17 with their reports -- and we're talking about breaks,
18 now, not -- all systems leak some. And if there's no
19 record of a break or no record of any unusual event,
20 then the best data available was utilized to screen
21 the data used in the analysis.

22 If you don't know something and it occurred,
23 then there's no assurance we could give you for
24 something unknown.

25 Q But if this one max day is so materially

1 different than the second, the third and the fourth
2 max days, would that not lead the reviewer of this
3 data some question as to whether that one particular
4 day's reading was an aberrant reading, or an unknown
5 event could have accounted for that, and that by
6 averaging you helped take that factor out of it?

7 A I'm trying to keep your questions, to answer
8 each one of them in that long question.

9 Q Okay.

10 A First, to answer your first question, if
11 there's a tremendous disparity between the single
12 maximum day and the next highest maximum day, would
13 that give you some cause for concern to look at the
14 system?

15 Q Right.

16 A On smaller systems, not so much because the
17 peaking factors vary, you might have had a large
18 influx of customers or customer usage and then
19 leaving.

20 Daytona Beach is a great one when it is
21 Beach Week, you know everybody goes in there. I serve
22 the Utilities Commission of New Smyrna Beach and the
23 Easter Weekend is a tremendous peak.

24 The small systems, not so much. Large, as
25 the system gets larger, if there's no known cause,

1 then there would be more reason to consider that there
2 is something -- there may be something happening; you
3 would want to look at the situation.

4 You get to a system that is pumping out 5
5 million gallons per day and there's a change from the
6 next highest maximum day by 100%, another 5 million
7 gallons a day or something like that, you had better
8 investigate that. It's prudent to investigate that
9 type of situation. I agree with you.

10 To my knowledge, in talking with Chuck Bliss
11 and the Company staff, they did. So yes, that was
12 reviewed and discussed.

13 But does that mean that the data point is
14 wrong if it did occur? And I also answer your
15 question, I have to flip-flop on my answer, is of
16 course not. Peaking conditions happen in these
17 systems and you have to meet the demand.

18 Q Have you quantified what you feel is the
19 appropriate difference between that peak day versus
20 the second highest peak day? What is your level, does
21 it depend on the size of the system and the
22 circumstances is basically what you are saying?

23 A It's engineering judgment with experience.
24 I can't just give you a rule of thumb for that.

25 Q Let me direct your attention to Pages 25 and

1 26, and we are talking about where you talk about firm
2 reliable capacity adjustment. And isn't it correct
3 that the chance is very small of having two components
4 out of service and a fire break out, as Mr. Bidy has
5 discussed? Yes, no, and with explanation.

6 A Well, statistically, yes, it is remote,
7 because emergencies return frequency are remote.
8 There's no doubt about it.

9 Does it occur? Yes, it does occur.

10 Do you have to provide facilities to meet
11 emergency conditions, meeting design standards of
12 reliability? And the answer is yes.

13 So, therefore, what he is promoting not only
14 doesn't make any sense but doesn't meet design
15 standards. You know, if you have to meet a service
16 condition and meet it reliably, you have to have the
17 facilities to do it.

18 Q But is it cost-effective, though, to have so
19 many components with their added reliable capacities
20 given the small likelihood of them occurring? Is that
21 cost-effective?

22 A Yes, it is. Because it is the nature of the
23 business and the nature of the service of public
24 health, safety and welfare.

25 Look at any of these small systems. Orange

1 City, Polk City, I serve them. We spend and put in
2 rates all these same facilities. No difference. Polk
3 City is right there next to Lakeland and Orange City
4 is south of Deland. These are small little cities. I
5 serve 30 of those and we don't do anything different
6 for them. And they're on rates.

7 Q Isn't it correct that EPA's MCD-05
8 publication you reference here on Page 26 is for
9 wastewater facilities but we're discussing water
10 systems here?

11 A MCD-05 is written for the wastewater grants
12 program and for wastewater facilities, that is
13 correct. It has also been included by reference in
14 application on mechanical reliability for water
15 facilities.

16 Q Are you suggesting this then is applicable
17 to what we are talk about here with water systems?

18 A The concept of reliability is. The actual
19 clarifier design aspects or having preliminary
20 treatment units and that kind of thing, of course not.

21 Q On Page 30 you talk about Mr. Bidy's view
22 on emergency storage where you speak of Mr. Bidy's
23 recommendation to eliminate emergency storage. Isn't
24 it correct that Mr. Bidy already provided some
25 emergency storage through a half-day storage in his

1 testimony?

2 A I don't know that. A half-day storage?
3 Half of what, the average day that he was talking
4 about?

5 Q It is my understanding, yes, half of the --

6 A Average day.

7 Q Right, average day.

8 A That doesn't provide for adequate overall
9 storage.

10 Q It is a provision of?

11 A Well, when you take that for all aspects of
12 storage, depends on which one you cut out, diurnal or
13 peaking hour storage and fire flow protection storage.
14 If that's all the storage you're using, then it's
15 inadequate --

16 Q Well, on --

17 A -- and you're bumping it out. I mean,
18 something has to give.

19 Q Well, on Page -- are you finished?

20 A Yes.

21 Q Okay. On Page 30, you mention the
22 firefighting in Deltona Lakes. Is that correct?

23 A That's correct.

24 Q And didn't SSU already ask for fire storage
25 allowance and you are now requesting emergency storage

1 for the same reason? Is that correct?

2 A Okay. That's, let me clarify that testimony
3 for you.

4 Q Okay.

5 A Fire flow storage is for like residential or
6 commercial fires. That instance was a forrest fire
7 emergency situation. You are probably not familiar
8 with it. And the whole side of the development went
9 up in a blaze, and it was fought off of these
10 facilities.

11 A similar thing happened to Palm Coast when
12 the big ITT Palm Coast fire for the whole region
13 happened. You've heard of those types of situations
14 in Southern California fires. That's an emergency and
15 that's not contemplated in fire protection.

16 Q On Page 30 of Lines 20 through 21, you talk
17 about Mr. Biddy's view on dead storage. And you said
18 here, "Dead storage is commonly encountered in
19 Florida."

20 A That's correct.

21 Q It is not very difficult to find out the
22 dead storage in ground storage tanks, is it? Can't
23 you just simply check the as-built drawings? Would
24 that tell that you the dead storage in that facility?

25 A No.

1 Q Okay. Why not?

2 A Because the dead storage is a function of
3 the NPSH, which is the net positive suction head of
4 the pumps and the vortex capabilities under the
5 hydraulic institutes of those pumps. So as you change
6 out pumps, the dead storage does modify.

7 Q Wouldn't the lowest level that you can draw
8 in the tank be in the design, in NPSH, is already
9 included in the design?

10 A I'm trying to understand your question, I
11 couldn't make out your question.

12 MR. REILLY: Hold one second, let me
13 consult.

14 CHAIRMAN CLARK: Mr. Reilly, let me ask you.
15 How much more do you have for this witness?

16 MR. REILLY: Depends on how it goes, but not
17 too much. It's hard for me to estimate, really.

18 CHAIRMAN CLARK: You are in the best
19 position to estimate it.

20 MR. REILLY: I'm in the best position to
21 estimate this. No, I think this gentleman can go five
22 minutes or one minute. His answers dictate the time
23 more than anything else. Could be 15 minutes or an
24 hour.

25 CHAIRMAN CLARK: We'll take a break for 15

1 minutes until 5 after 3:00. We'll take a break and
2 give you time to consult.

3 (Brief recess.)

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5 (Transcript continues in sequence in
6 Volume 9.)

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