

BEFORE THE  
FLORIDA PUBLIC SERVICE COMMISSION

DOCKET NO. 010503-WU

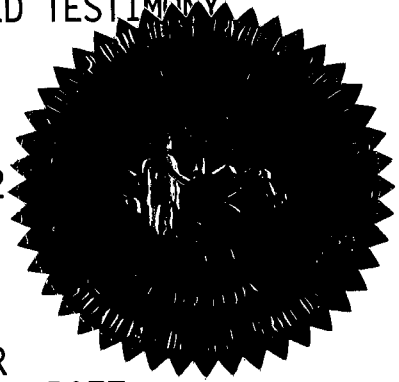
In the Matter of

APPLICATION FOR INCREASE IN  
WATER RATES FOR SEVEN SPRINGS  
SYSTEM IN PASCO COUNTY BY  
ALOHA UTILITIES, INC.

ELECTRONIC VERSIONS OF THIS TRANSCRIPT ARE  
A CONVENIENCE COPY ONLY AND ARE NOT  
THE OFFICIAL TRANSCRIPT OF THE HEARING,  
THE .PDF VERSION INCLUDES PREFILED TESTIMONY

VOLUME 6

Pages 694 through 862



PROCEEDINGS:

HEARING

BEFORE:

CHAIRMAN LILA A. JABER  
COMMISSIONER BRAULIO L. BAEZ  
COMMISSIONER MICHAEL A. PALECKI

DATE:

Thursday, January 10, 2002

TIME:

Commenced at 8:38 a.m.

PLACE:

Clarion Hotel  
5316 U. S. Highway 19 North  
New Port Richey, Florida

REPORTED BY:

LINDA BOLES, RPR  
Official FPSC Reporter  
(850) 413-6734

APPEARANCES:

(As heretofore noted.)

DOCUMENT NUMBER DATE

U0922 JAN 25 02

FPSC-COMMISSION CLERK

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25

## I N D E X

## WITNESSES

NAME:	PAGE NO.
DONNA DERONNE	
Direct Examination by Mr. Burgess	697
Prefiled Direct Testimony Inserted	701
Cross Examination by Mr. Deterding	741
TED L. BIDDY	
Direct Examination by Mr. Burgess	763
Prefiled Direct Testimony Inserted	766
Cross Examination by Mr. Wood	794
Cross Examination by Mr. Jaeger	795
Cross Examination by Mr. Wharton	801
Redirect Examination by Mr. Burgess	860
CERTIFICATE OF REPORTER	862

EXHIBITS

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25

NUMBER:

9 Appendix II, DD-1 and DD-2

10 TLB-1 through TLB-10

ID. ADMTD.

700 763

765 861

## P R O C E E D I N G S

(Transcript follows in sequence from Volume 5.)

MR. BURGESS: The next witness we'd call is Donna DeRonne.

COMMISSIONER JABER: Whenever you're ready, Mr. Burgess.

MR. BURGESS: Thank you.

DONNA DERONNE

was called as a witness on behalf of the Citizens of the State of Florida and, having been duly sworn, testified as follows:

## D I R E C T E X A M I N A T I O N

BY MR. BURGESS:

Q Would you state your name and address for the record, please.

A My name is Donna DeRonne, and my business address is 15728 Farmington Road, Livonia, Michigan 48154.

Q Have you prefiled testimony in this document?

A Yes, I have.

Q Do you have any changes that you would make to that prefiled testimony?

A I have a few minor corrections.

Q Would you please note them?

A Yes. The first one appears on page three, line 15. I refer to Hugh Larkin, Jr., and Steven Bidy. That reference should be to Stephen Stewart, and I do notice I spelled Stephen

1 with a V as opposed to a P-H.

2 The next change is at page 11, line 20. I reference  
3 Schedule C and that should have been reference to Schedule B.

4 COMMISSIONER JABER: B as in boy?

5 THE WITNESS: Boy. And the next change is of the  
6 same nature on page 14, line three. I reference Schedule C and  
7 that should have also been Schedule B as in boy.

8 On then on page 31, line nine, I reference Schedule  
9 C-3 and that should have been Schedule C-2. And the same thing  
10 on line 22 of that page. The reference to Schedule C-3 should  
11 have also been to Schedule C-2. Oh, and one, one final  
12 reference change. Page 33, line 20, I reference Staff's audit  
13 Disclosure Number 5 and it should have been Disclosure Number  
14 4. And that's all the changes I have.

15 BY MR. BURGESS:

16 Q With those changes, if the questions posed in your  
17 prefiled testimony were asked today, would your answers be the  
18 same?

19 A Yes, they would.

20 MR. BURGESS: Commissioner, we'd ask that  
21 Ms. DeRonne's testimony be, prefiled testimony be entered into  
22 the record as though read.

23 COMMISSIONER JABER: Prefiled Direct Testimony of  
24 Donna DeRonne shall be inserted into the record as though read.

25 MR. BURGESS: Thank you.

1 BY MR. BURGESS:

2 Q And did you attach exhibits to your testimony that  
3 you prefiled?

4 A Yes, I did.

5 Q Would you identify those, please? You can just  
6 briefly describe what they are. There's no --

7 A Yes. The first one is Exhibit 1, which provides my  
8 calculations of the revenue requirement calculations. And then  
9 Exhibit 2 provides a calculation of the differential associated  
10 with exceeding the CUP limits.

11 Q And those are the exhibits?

12 A Yes, they are.

13 MR. BURGESS: Chairman Jaber, may we get an exhibit  
14 number to identify Ms. DeRonne's exhibits?

15 COMMISSIONER JABER: Yeah. And just a minute. On  
16 page 33 of the prehearing order, those exhibits listed there,  
17 are they all encompassed in DD-1 and DD-2, Mr. Burgess?

18 MR. BURGESS: I'm sorry. I'm having a little  
19 trouble. I've got a different page number.

20 CHAIRMAN JABER: Okay. Where the exhibits are listed  
21 under your witness.

22 MR. BURGESS: I, I see. May I ask the witness to  
23 answer that question?

24 COMMISSIONER JABER: All right.

25 THE WITNESS: Yes. Exhibit DD-1 would be that

1 Exhibit 1 I referenced. I don't see the second exhibit  
2 referenced on this.

3 COMMISSIONER JABER: All right. But in any case the  
4 only exhibits you are trying to admit into evidence attached to  
5 your prefiled testimony will be your Appendix 2, the  
6 qualifications, DD-1 and DD-2.

7 THE WITNESS: Correct.

8 COMMISSIONER JABER: All right. Let's make that  
9 Composite Exhibit Number 9. And, Mr. Burgess, it'll include  
10 her resume.

11 MR. BURGESS: Thank you, Chairman.

12 COMMISSIONER JABER: Or whatever Appendix 2 is.

13 MR. BURGESS: Thank you.

14 COMMISSIONER JABER: Composite Exhibit 9 is Appendix  
15 2, DD-1 and DD-2.

16 (Exhibit 9 marked for identification.)  
17  
18  
19  
20  
21  
22  
23  
24  
25

1 DIRECT TESTIMONY OF DONNA DERONNE  
2 ON BEHALF OF THE CITIZENS OF FLORIDA  
3 BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION  
4 ALOHA UTILITIES, INC  
5 DOCKET NO. 010503-WU  
6

7 I. INTRODUCTION

8 Q. WHAT IS YOUR NAME, OCCUPATION AND BUSINESS ADDRESS?

9 A. My name is Donna DeRonne. I am a Certified Public Accountant licensed in the  
10 State of Michigan and a senior regulatory consultant at the firm of Larkin &  
11 Associates, PLLC, Certified Public Accountants, with offices at 15728 Farmington  
12 Road, Livonia, Michigan 48154.

13  
14 Q. PLEASE DESCRIBE THE FIRM LARKIN & ASSOCIATES, PLLC.

15 A. Larkin & Associates, PLLC, is a Certified Public Accounting and Regulatory  
16 Consulting Firm. The firm performs independent regulatory consulting primarily for  
17 public service/utility commission staffs and consumer interest groups (public  
18 counsels, public advocates, consumer counsels, attorneys general, etc.). Larkin &  
19 Associates, PLLC, has extensive experience in the utility regulatory field as expert  
20 witnesses in over 300 regulatory proceedings, including numerous water and  
21 wastewater, gas, electric and telephone utilities.  
22



1 Q. HAVE YOU PREVIOUSLY TESTIFIED BEFORE THE FLORIDA PUBLIC  
2 SERVICE COMMISSION?

3 A. Yes. I have testified before the Florida Public Service Commission on two prior  
4 occasions. I have also testified before several other state regulatory commissions.  
5

6 Q. HAVE YOU PREPARED AN EXHIBIT DESCRIBING YOUR QUALIFICATIONS  
7 AND EXPERIENCE?

8 A. Yes. I have attached Appendix I, which is a summary of my regulatory experience  
9 and qualifications.  
10

11 Q. ON WHOSE BEHALF ARE YOU APPEARING?

12 A. Larkin & Associates, PLLC, was retained by the Florida Office of Public Counsel  
13 (OPC) to review the rate increase request by Aloha Utilities, Inc. for its Seven Springs  
14 Water Division. Accordingly, I am appearing on behalf of the Citizens of Florida  
15 (Citizens).  
16

17 Q. ARE ANY ADDITIONAL WITNESSES APPEARING ON BEHALF OF THE  
18 FLORIDA OFFICE OF PUBLIC COUNSEL IN THIS CASE?

19 A. Yes. Hugh Larkin, Jr., also of Larkin & Associates, PLLC, is presenting testimony in  
20 this case. Additionally, OPC Witnesses Ted Bidy and Steven Stewart are also  
21 presenting testimony.  
22

1 Q. HOW WILL YOUR TESTIMONY BE ORGANIZED?

2 A. I address, in order, the following: Overall Financial Summary, Operating Income,  
3 Rate Base, Rate of Return and Rate Design.  
4

5 II. OVERALL FINANCIAL SUMMARY

6 Q. HAVE YOU PREPARED AN EXHIBIT IN SUPPORT OF YOUR TESTIMONY?

7 A. Yes. I have prepared Exhibit\_\_(DD-1), consisting of Schedules A, B, C and D, with  
8 supporting schedules B-1 through B-8 and C-1 through C-2. The schedules presented  
9 in Exhibit\_\_(DD-1) are also consecutively numbered at the bottom of each page.  
10

11 Q. WHAT DOES SCHEDULE A, ENTITLED "CALCULATION OF REVENUE  
12 REQUIREMENT" SHOW?

13 A. Schedule A presents the calculation of revenue requirement, at this time, giving effect  
14 to all the adjustments I am recommending in this testimony, along with the impacts of  
15 the recommendations made by OPC witnesses Hugh Larkin, Jr. and ~~Steven Biddy~~ **Stephen Stewart**.

16 The adjustments presented on Schedule A which impact net operating income can be  
17 found on Schedule B. Schedules B-1 through B-8 present the detailed calculations  
18 supporting the adjustments to net operating income contained on Schedule B. The  
19 OPC adjustments to rate base are listed on Schedule C. Schedule C-1 through C-2  
20 provide supporting calculations for the adjustments to rate base presented on  
21 Schedule C. Finally, the OPC's recommended rate of return is presented on Schedule  
22 D.

1 As shown in the revenue increase column, Column (5), on Schedule A, the OPC's  
2 recommended adjustments in this case result in a revenue increase for Seven Springs  
3 water division of \$635,169. This is considerably lower than the \$1,077,337 increase  
4 requested by the Company.

5  
6 Q. BASED ON THE CALCULATIONS PRESENTED ON SCHEDULE A, IS THE  
7 OPC RECOMMENDING A RATE INCREASE FOR THE SEVEN SPRINGS  
8 WATER DIVISION OF \$635,169?

9 A. No, it is not. While the calculations presented in Exhibit\_\_(DD-1) indicate a revenue  
10 increase of \$635,169, the OPC recommends that Seven Springs water division be  
11 allowed no increase in rates at this time. The OPC's overall position that no increase  
12 in rates be allowed, along with the justification for that position, is discussed in the  
13 testimony of OPC Witness Hugh Larkin, Jr. Schedule A of Exhibit\_\_(DD-1) presents  
14 what the OPC's recommended increase in revenues would be, if an increase was  
15 warranted in this case. However, as discussed by Mr. Larkin, the OPC strongly feels  
16 that no increase in rates is appropriate at this time.

17  
18 Additionally, there are several late filed exhibits outstanding in areas that the OPC is  
19 still investigating. These may impact the revenue calculation I have included on  
20 Schedule A.

21  
22 III. OPERATING INCOME

1        Correction of Errors in MFRs

2        Q.     ARE THERE ANY ERRORS CONTAINED IN THE COMPANY'S FILING THAT  
3                NEED TO BE CORRECTED?

4        A.     Yes. There are numerous errors in the Company's filing that need to be corrected.

5                The Company has acknowledged several of the errors in response to OPC  
6                interrogatories filed in this case. Errors need to be corrected for the following items:

- 7                –     Interest income allocated to Seven Springs Water Division;
- 8                –     Reflect residential vacation bill revenue;
- 9                –     Correction to the allocation of bad debt expense;
- 10              –     Correction to the allocation of pension expense;
- 11              –     Correction to the allocation of an employee's wages;
- 12              –     Correction to Contributions in Aid of Construction Additions; and
- 13              –     Correction of the accumulated amortization of contributed taxes.

14  
15              Additionally, the Florida Public Service Commission Division of Regulatory  
16              Oversight has identified several necessary revisions to the Company's filing as it  
17              pertains to the historical test year ended December 31, 2000, in its Audit Report, AFA  
18              Control #01-207-2-1, dated October 10, 2001. The audit reports addressed the  
19              historic test period; however, several of the problems identified also impact the  
20              projected test year calculations in the Company's filing. During the OPC's  
21              depositions of Company witnesses, the Company indicated that it did not anticipate,  
22              at that time, protesting any of the Division of Regulatory Oversight's findings. As of

1 the date this testimony was prepared, I have not received a copy of the Company's  
2 response to the audit report.

3  
4 Q. WOULD YOU PLEASE DISCUSS THE FIRST ERROR YOU IDENTIFIED  
5 PERTAINING TO INTEREST INCOME?

6 A. During the historic test year, the Company allocated \$10,139 of interest income to the  
7 Seven Springs water division. The amount was increased by 1.04688% for customer  
8 growth in the filing, resulting in adjusted interest income of \$10,614. The interest  
9 income for the Company as a whole was \$46,114 in 2000. In response to OPC  
10 Interrogatory No. 53, the Company indicated that the amount included in the filing  
11 was incorrectly allocated. The response indicated that the projected amount for 2001  
12 for the Seven Springs water division should have been \$18,104, not the \$10,614  
13 contained in the filing. This results in an increase in interest income of \$7,490, which  
14 I reflected on Schedule B, line 2.

15  
16 Q. PLEASE DISCUSS THE NEXT ERROR IN THE FILING.

17 A. On Schedule E-13, page 1 of the Company's MFRs, it failed to extend the vacation  
18 bills in calculating the projected test year revenues. The Company acknowledged this  
19 error in response to OPC Interrogatory No. 45, stating that: "The 1141 vacation bills  
20 should be extended at \$3.66 to result in additional test year revenue of \$4,176." This  
21 additional revenue for residential vacation bills of \$4,176 is reflected on Schedule B,  
22 line 3.

1 Q. PLEASE DISCUSS THE CORRECTION TO CONTRIBUTIONS IN AID OF  
2 CONSTRUCTION.

3 A. On MFR Schedule G-12, the Company identified \$99,331 of contributed property  
4 additions in April 2001. Schedule A-12(A) of the filing, in which the Company  
5 calculates the thirteen-month average amount of Contributions in Aid of  
6 Construction, only included an increase of \$59,990 for contributed property for April  
7 2001. In response to OPC Interrogatory 3, the Company agreed that the monthly  
8 balances on Schedule A-12(A) of the filing for April through December 2001 should  
9 be increased by \$39,341 ( $\$99,331 - \$59,990$ ). Since rate base is calculated on a  
10 thirteen-month average basis, the correction result in additional Contributions in Aid  
11 of Construction (which is a reduction to rate base) of \$27,236 ( $\$39,341 \times 9/13$ ths).  
12 This correction is reflected on Schedule C, line 6.

13  
14 Q. DO YOU PLAN TO ADDRESS THE REMAINING ERRORS?

15 A. Yes. The remaining errors will be discussed in subsequent sections of this testimony,  
16 specifically under the headings bad debt expense, pension expense, salaries and wages  
17 and accumulated amortization of contributed taxes.

18  
19 Items that Should Have Been Capitalized

20 Q. PLEASE DISCUSS YOUR ADJUSTMENT ON SCHEDULE B-2 FOR ITEMS  
21 THAT SHOULD HAVE BEEN CAPITALIZED.

22 A. The Commission's Division of Regulatory Oversight identified four different items in

1 its audit report that were recorded as expenses on the Company's books during 2000  
2 that should have been capitalized. The items consisted of a well head check valve,  
3 pump, pump motor and office filing cabinets. Each of these items, totaling \$11,552,  
4 were recorded in expense Account 620 during the historic test year. Schedule B-2  
5 calculates the impact on the projected test year that results from transferring the items  
6 from expense to plant in service. As shown on the schedule, plant in service should  
7 be increased by \$11,552, accumulated depreciation should be increased by \$613,  
8 depreciation expense should be increased by \$613 and operation and maintenance  
9 expense should be decreased by \$12,396. These adjustments are carried forward to  
10 summary Schedules B and C.

11  
12 Q. SINCE THESE ITEMS WERE INCORRECTLY RECORDED AS EXPENSE IN  
13 2000, WHY DO THEY IMPACT THE PROJECTED TEST YEAR EXPENSES?

14 A. In calculating the projected test year expense in Account 620, the Company  
15 essentially utilized the historic test year expense in this account and increased it by its  
16 proposed growth and inflation factors. Consequently, any items which overstate the  
17 expenses in Account 620 in the historic test year would also overstate the projected  
18 test year level. On Schedule B-2, I applied the Company's growth and inflation  
19 factors to the \$11,552 of expenses that should have been capitalized to determine the  
20 appropriate reduction to the projected test year expense level. This results in a  
21 reduction to projected test year expense of \$12,396.

1 Bad Debt Expense

2 Q. WHAT AMOUNT IS INCLUDED IN THE COMPANY'S FILING FOR BAD  
3 DEBT EXPENSE?

4 A. The filing includes bad debt expense of \$3,229. The amount is based on the historic  
5 test year level. In response to OPC Interrogatory 1, the Company indicated that the  
6 amount included in the filing is incorrect. The amounts for Aloha Gardens sewer and  
7 Seven Springs water were switched in the allocation process, resulting in Seven  
8 Springs water bad debt expense being based on the amount for Aloha Gardens sewer  
9 division. According to the Company's response to the interrogatory, the bad debt  
10 expense is understated by \$2,316 due to the error.

11  
12 Q. HAVE YOU INCREASED BAD DEBT EXPENSE FOR SEVEN SPRINGS  
13 WATER DIVISION BY \$2,316 TO CORRECT THE ALLOCATION ERROR?

14 A. No. I agree that the amount included in the filing should be revised; however, I do  
15 not agree with the methodology used by the Company in determining the amount of  
16 bad debt expense that should be allocated to Seven Springs water division.

17  
18 Q. HOW DID THE COMPANY DETERMINE THE AMOUNT OF BAD DEBT  
19 EXPENSE THAT SHOULD BE ALLOCATED TO SEVEN SPRINGS WATER  
20 DIVISION?

21 A. In November 2000, the Company prepared a listing off all closed accounts for which  
22 no payment had been received from customers in six months. This resulted in



1 \$11,090 of accounts that were written-off to bad debt expense for Seven Springs  
2 water and sewer operations in 2000. The Company's response to OPC Interrogatory 1  
3 indicates that this amount should have been allocated 50/50 to Seven Springs water  
4 and sewer divisions. This is how the Company determined its corrected bad debt  
5 expense for Seven Springs water of \$5,545, which is \$2,316 higher than the amount  
6 included in the filing.

7  
8 Q. IS THE 50/50 SPLIT OF THE BAD DEBT EXPENSE BETWEEN THE WATER  
9 AND SEWER OPERATIONS APPROPRIATE?

10 A. No, it is not. The most appropriate method for assigning the costs would be to base it  
11 on the amount that is specific to each division. However, during depositions,  
12 Company's accounting witness, Bob Nixon, indicated that he did not think the  
13 Company's accounting system had the capability of determining which of the Seven  
14 Springs accounts that were written-off were specific to water versus the sewer  
15 operations. Consequently, the 50/50 split was used.

16  
17 A more appropriate method for allocating the bad debt expense between the water and  
18 sewer operations, as the amount specific to each division is apparently not available,  
19 would be to allocate the amount based on the percentage of revenue applicable to  
20 each division. On an annual basis, Seven Springs sewer division records significantly  
21 more revenue than the water division. Since it is previously recorded revenues that  
22 are being written-off, it is logical to assume that the percentage of revenues applicable

1 to each division would be a more appropriate allocation factor to use in assigning bad  
2 debt expense.

3  
4 Q. WHAT PERCENTAGE OF THE TOTAL SEVEN SPRINGS REVENUES ARE  
5 APPLICABLE TO THE WATER DIVISION?

6 A. Based on the amount of revenues for the Seven Springs water and sewer divisions  
7 contained in the Company's annual report to the Florida Public Service Commission  
8 for the year ended December 31, 2000, 40.27% of Seven Springs total water and  
9 sewer revenues were applicable to the Seven Springs water division. The calculation  
10 of this percentage is presented on Exhibit \_\_ (DD-1), Schedule B-3.

11  
12 Q. WHAT ADJUSTMENT SHOULD BE MADE TO THE BAD DEBT EXPENSE  
13 CONTAINED IN THE COMPANY'S FILING?

14 A. As shown on Schedule B-3, bad debt expense should be increased by \$1,237. This  
15 corrects for the error in the Company's filing in which it utilized the amount allocated  
16 to Aloha Garden sewer operations, and it includes the more appropriate 40.27%  
17 allocation factor for Seven Springs water.

18  
19 Pension Expense

20 Q. PLEASE DISCUSS THE ADJUSTMENT ON SCHEDULE ~~E~~<sup>B</sup> THAT INCREASES  
21 PENSION EXPENSE BY \$40,509.

22 A. During the first six months of 2001, the Company recorded as a cost of Seven Springs

1 water the amount that should have been allocated to Aloha Gardens sewer, and vice-  
2 versa. This resulted in the amount of pension expense contained in the filing being  
3 significantly understated. Additionally, the amount included in the filing was based  
4 on estimated pension amounts, and the Company has since received the 2001 updated  
5 pension expense amounts from its pension plan administrator. According to the  
6 Company's response to OPC Interrogatory 12, employee benefits expense should be  
7 increased by \$40,509 to correct the allocation to Seven Springs water and to reflect  
8 the more recent pension expense level provided by the pension plan administrator.  
9 This correction and update, which I have reflected on Schedule C, results in a \$40,509  
10 increase in employee benefit expense.

11  
12 Q. SHOULD ANY ADDITIONAL ADJUSTMENTS TO PENSION EXPENSE BE  
13 MADE?

14 A. According to the Company's response to OPC Interrogatory 12, Seven Springs water  
15 division should have been allocated 44.83% of the pension expense. The revised  
16 pension expense includes the impact of the 44.83% allocation. This is considerably  
17 higher than the 37.5% general allocation factor used in the filing. During the  
18 Deposition of Company accounting witness Bob Nixon, the OPC requested a late  
19 filed exhibit to explain and show how the 44.83% allocation factor was determined.  
20 The OPC also requested a copy of the information provided by the pension plan  
21 administrators resulting in the higher pension expense amount. As of the time this  
22 testimony was prepared, I have not received the late filed exhibits. Consequently,

1 additional adjustments to pension expense may be appropriate.

2  
3 Salaries & Wages - Open Positions

4 Q. PLEASE DISCUSS THE COMPANY'S ADJUSTMENT FOR ADDITIONAL  
5 EMPLOYEE POSITIONS.

6 A. In addition to its actual employee compliment as of June 30, 2001, the Company's  
7 filing includes ten additional employees. The adjustment for the ten additional  
8 employees results in an increase in salary and wage expense, on a Seven Springs  
9 water division basis, of \$107,850. This is a 30% increase above the projected  
10 annualized level of salary and wage expense for employees existing as of June 30,  
11 2001. Of the ten additional employees, five are to fill new positions and five are to  
12 fill open positions. The new positions are for a clerk, fleet maintenance employee,  
13 electronic technician, utility director and an additional utility worker. The open  
14 positions are for a utility I worker, utility II worker, labor supervisor, and two plant  
15 trainees.

16  
17 Q. HAS THE COMPANY FILLED ANY OF THE OPEN OR NEW POSITIONS YET?

18 A. No. According to the response to OPC Interrogatory 25, all ten positions remain  
19 open. In fact, according to the response to OPC Interrogatory 27, three additional  
20 positions have become vacant. Consequently, the Company's filing includes payroll  
21 costs associated with thirteen more employees than it actually has on-hand.

1 Q. ARE YOU RECOMMENDING ANY ADJUSTMENTS RELATING TO THE  
2 ADDITIONAL EMPLOYEES ADDED BY THE COMPANY?

3 A. Yes. As shown on Schedule ~~C~~<sup>B</sup>, I recommend that the entire \$107,850 added by the  
4 Company for the ten additional employees be removed. These positions have not  
5 been filed to date, and the employee compliment has declined even further.  
6 Considering the Company's high historic employee turnover rates and problems  
7 retaining employees, along with the further reduction of employees, it is not realistic  
8 to assume that the Company will retain thirteen additional employees in the near  
9 future, or that 100% of the Company's proposed employee positions will both be  
10 filled and remain filled. The Company would need to increase its compliment of  
11 employees who are directly charged or allocated to Seven Springs water by 37%  
12 above the current level. Ratepayers should not be asked to pay costs associated with  
13 employees that do not exist. By allowing the Company's annualized salary and wage  
14 adjustment, after a correction discussed later in this testimony, I am still reflecting the  
15 costs for three more employees than the Company currently has.

16  
17 Q. DOES THE REMOVAL OF THE COMPANY'S ADJUSTMENT FOR  
18 ADDITIONAL EMPLOYEES IMPACT ANY OTHER ADJUSTMENTS  
19 CONTAINED IN THE FILING?

20 A. Yes. On MFR Schedule B-3(A), the Company increased employee benefit expense  
21 by \$13,255 for benefits associated with the proposed new employees. This amount is  
22 also being removed on Schedule B in Exhibit \_\_ (DD-1).

1        Correction to Salary and Wage Annualization

2        Q.     PLEASE DISCUSS THE CORRECTION THAT NEEDS TO BE MADE TO THE  
3                COMPANY'S SALARY AND WAGE ANNUALIZATION ADJUSTMENT.

4        A.     The Company calculated its salary and wage annualization adjustment on MFR  
5                Schedule G-8. The purpose of the adjustment on MFR Schedule G-8 is to reflect the  
6                annualized salary and wages of the actual employees based on the salaries effective as  
7                of July 9, 2001. On line 42 of the Schedule, the Company calculated the annualized  
8                salary of Charles Painter, who is the Utility Operations Supervisor. According to the  
9                schedule, Mr. Painter's salary should have been allocated to Seven Springs water  
10              division at a rate of 37.5%. However, the calculation presented on line 42 of the  
11              schedule results in 100% of Mr. Painter's annualized salary being allocated to Seven  
12              Springs water.

13  
14        Q.     WHAT ADJUSTMENT IS NECESSARY TO CORRECT THIS APPARENT  
15                ERROR?

16        A.     The Company's annualized salary and wage expense for Seven Springs water division  
17                should be reduced by \$21,268. The calculation of the adjustment is presented on  
18                Schedule B-4.

19  
20        Officers Salary and Wages

21        Q.     DID YOU REVIEW THE COMPANY'S PROPOSED OFFICER SALARY AND  
22                WAGE EXPENSE TO ENSURE THAT IT IS CONSISTENT WITH PAST

1 COMMISSION DECISIONS?

2 A. Yes. Based on my review, an adjustment to the Company's proposed projected test  
3 year officers salary and wage expense needs to be made.

4

5 Q. PLEASE EXPLAIN.

6 A. In Order No. PSC-01-0326-FOF-SU, the Commission limited the vice-president's  
7 salary to 20% of the president's salary. On MFR Schedule G-7, page 1, the Company  
8 indicated that it was basing the projected expense in Account 603 - Salaries and  
9 Wages - Officers on the amount allowed in the last Order. The filing reflects an  
10 expense level of \$66,707. OPC Interrogatory 23 asked the Company to provide a  
11 listing of the officers whose payroll expense is included in Account 603, along with  
12 the officer's actual salaries for 2000 and 2001. Based on the response, the expense  
13 level in Account 603 in the filing consists of the 2000 salary costs associated with the  
14 president, the vice-president at 20% of the president's salary level, and either Connie  
15 Kurish or the controller's salary, depending on which portion of the response is relied  
16 upon. Connie Kurish and the controller's (Marion Vinyard) salaries are already  
17 included in the Company's salary and wage annualization adjustment. Consequently,  
18 the amount of salary and wage expense for officers includes a double count for certain  
19 employees who are already reflected in the payroll annualization adjustment.

20

21 Q. WHAT ADJUSTMENT SHOULD BE MADE TO REMOVE THE DOUBLE  
22 COUNTING OF PAYROLL COSTS FOR CERTAIN EMPLOYEES?

1 A. As previously indicated, the salaries and wages for the officers other than the  
2 president and vice-president are already reflected in the salary and wage annualization  
3 adjustment. On Schedule B-5, I calculated a revised officers salary and wage expense  
4 based on the current salary of the president and 20% of the president's salary for the  
5 vice-president. This resulted in a total officers salary and wage expense of \$154,502.  
6 I then applied the Seven Springs water division allocation factor of 37.5%, resulting  
7 in adjusted officers salary and wages expense of \$57,938, which is \$8,769 (\$66,707 -  
8 \$57,938) less than the amount contained in the Company's filing.

9  
10 Purchase Water Expense

11 Q. THE PROJECTED PURCHASE WATER EXPENSE IS THE MAIN DRIVER OF  
12 THE RATE INCREASE REFLECTED IN THIS CASE. IS THE OPC  
13 RECOMMENDING ANY REVISIONS TO THE PROJECTED LEVEL OF  
14 PURCHASE WATER EXPENSE?

15 A. Yes. OPC Witnesses Steven Stewart and Ted Bidy both discuss the Company's  
16 projections of customer water consumption in this case. Both are recommending  
17 significant reductions to the Company's projected water to be sold in 2001. While  
18 each of these OPC witnesses use different methodologies in projecting the amount of  
19 gallons to be sold to customers in 2001, they come to a similar conclusion and similar  
20 levels of projected gallons to be sold. Any reductions to the projected level of water  
21 sold likewise impacts the amount of water that is necessary to be purchased from  
22 Pasco County.



1 Q. HAVE YOU CALCULATED THE IMPACT OF THE OPC'S RECOMMENDED  
2 REDUCTION IN PROJECTED WATER TO BE SOLD IN THE TEST YEAR ON  
3 PURCHASE WATER EXPENSE?

4 A. Yes. As previously mentioned, both OPC witness Ted Bidy and OPC witness  
5 Steven Stewart recommend significant reductions to the projected number of gallons  
6 to be sold in the projected test year. As the number of gallons projected to be sold is  
7 slightly higher in Mr. Stewart's analysis, I flowed through the impact of his  
8 recommendation in order to be conservative in determining the necessary reduction to  
9 purchase water expense. The calculation is presented in Exhibit\_\_(DD-1), Schedule  
10 B-6. The calculation follows the same methodology used by the Company on its  
11 Schedule G-9 of the MFRs in determining the projected purchase water expense for  
12 purchases from Pasco County. For illustrative purposes, the schedule also includes a  
13 column (column 3) showing the impact of OPC witness Ted Bidy's recommended  
14 reduction to purchase water expense.

15  
16 Q. PLEASE DESCRIBE YOUR CALCULATION.

17 A. OPC Witness Steven Stewart determined that the projected 2001 test year level of  
18 water to be sold to customers should be 998,492,175 gallons. In translating the  
19 projected water to be sold to total water required with treatment and system losses, the  
20 Company used a factor of 10% for unaccounted for water. On Schedule B-6, I used a  
21 factor of 9.20% for unaccounted for water. This resulted in the OPC's recommended  
22 water required with treatment and system losses of 1,099,660,986. I then subtracted

1 the water available under the Consumptive Use Permits in determining the amount of  
2 water required to be purchased from Pasco County, prior to the Company's  
3 recommended repression adjustment. After applying the Company's proposed  
4 repression adjustment of 5% to the total estimated 2001 water required, consistent  
5 with the methodology employed by the Company, the resulting amount of water to be  
6 purchased from Pasco County is 300,077,936 gallons. On Schedule B-6, I then  
7 applied the current rate charged from Pasco County of \$2.35 per thousand gallons,  
8 resulting in projected cost of water to be purchased from Pasco County of \$705,183.  
9 The Company used the previous rate of \$2.20 per thousand gallons in its calculations.  
10 Schedule B-6 updates this amount for the actual current rate of \$2.35 per thousand  
11 gallons. As shown on Schedule B-6, purchase water expense should be reduced by  
12 \$222,910.

13  
14 Q. WHY DID YOU USE A 9.20% UNACCOUNTED FOR WATER FACTOR IN  
15 YOUR CALCULATION?

16 A. The Company's calculations assumed a 10% unaccounted for water rate. However,  
17 the actual percentage of unaccounted for water, per Company MFR Schedule F-1 was  
18 9.20%. According to the response to OPC Interrogatory 50, the actual accounted for  
19 water percentage for the first seven months of 2001 was 8%. The Company would  
20 have to realize a considerably higher unaccounted for rate for the last five months of  
21 2001 to bring the average 2001 rate up to 10%. Consequently, I see no reason to, at a  
22 minimum, reflect the actual historic test year unaccounted for level of 9.20% in

1 calculating the amount of water needed to be purchased from Pasco County.

2  
3 Q. DOES THE OPC'S RECOMMENDED REDUCTIONS TO THE LEVEL OF  
4 PROJECTED WATER TO BE SOLD IN THE TEST YEAR IMPACT OTHER  
5 AMOUNTS CONTAINED IN THE COMPANY'S FILING?

6 A. Yes. Any reductions to the projected level of customer consumption will likewise  
7 impact the projected level of revenues to be collected from customers during the test  
8 year.

9  
10 Q. HAVE YOU CALCULATED THE IMPACT ON PROJECTED TEST YEAR  
11 REVENUES?

12 A. Yes. On MFR Schedule E-13, the Company estimated its projection factor for  
13 application to test year consumption sales by dividing its estimated 2001 gallons to be  
14 sold by the gallons actually sold in 2000. This resulted in the Company's estimated  
15 projection factor of 1.08473. On Schedule B-1, I recalculated the projection factor by  
16 dividing the OPC's recommended 2001 gallons to be sold by the actual 2000 historic  
17 test year gallons sold. This results in a revised projection factor of 0.98012. Using  
18 the same methodology employed by the Company, I then determined the projected  
19 test year consumption that the gallons sold rate of \$1.32 is applied to. As shown on  
20 Schedule B-1, projected test year revenues should be reduced by \$99,787 to reflect the  
21 impacts of the reduced consumption level recommended by the OPC.

22

1 Q. DO YOU HAVE ADDITIONAL CONCERNS REGARDING THE LEVEL OF  
2 PURCHASE WATER EXPENSE REFLECTED IN THE CALCULATION OF  
3 BASE RATES?

4 A. Yes. In response to Staff Interrogatory 25, as updated November 1, 2001, the  
5 Company provided the number of gallons pumped and the number of gallons  
6 purchased from Pasco County for the first nine months of 2001. Based on the  
7 response, the Company only purchased 103,056,000 gallons from Pasco County for  
8 the first nine months of 2001. In fact, the response shows that no purchases have  
9 been made from Pasco County since March 2001. In other words, no purchases were  
10 made from Pasco County for the months of April through September of 2001. The  
11 Company's filing includes the expense associated with purchasing 421,860,000  
12 gallons from Pasco County on an annual basis. Applying a 75% factor to this amount  
13 would result in a three-fourths year (9 months) purchase level of 316,395,000, which  
14 is considerably larger than the amount actually purchased in the first nine months of  
15 2001 of 103,056,000 gallons. The amount to be purchased from Pasco County in the  
16 Company's filing was assumed to be the total gallon requirements less the amounts  
17 allowed to be withdrawn by the Company under its Consumptive Use Permit.

18  
19 Q. HAS THE COMPANY CONTINUED TO EXCEED ITS CONSUMPTIVE USE  
20 PERMIT LIMITS FOR THE FIRST NINE MONTHS OF 2001?

21 A. Yes, considerably so. The Consumptive Use Permit specifies that the average daily  
22 authorized gallons per day are 2,040,000. The peak monthly gallons per day

1 allowance is 2,470,000. Based on the response to Staff Interrogatory 25, as updated,  
2 for the first nine months of 2001, the Company pumped 747,964,341 gallons from its  
3 wells. The Consumptive Use Permit allowance, based on the average allowed gallons  
4 per day, would be 556,920,000 gallons (2,040,000 gpd x 273 days) for that same nine  
5 month period.

6  
7 Q. WHY IS THIS A CONCERN, FROM A REVENUE REQUIREMENT  
8 PERSPECTIVE?

9 A. If base rates are set under the assumption that the Company stays within its  
10 Consumptive Use Permit (CUP) requirements, and the Company then continues to  
11 withdraw more water from its wells than allowed under the Permit, the Company will  
12 essentially receive a windfall at the cost of ratepayers. The Company pays nothing for  
13 amounts withdrawn from two of its wells. On one of its wells, it pays a royalty fee of  
14 \$0.10 per thousand gallons withdrawn, and on the five remaining wells, it pays a  
15 royalty fee of \$0.32 per thousand gallons. The Company pays \$2.35 per thousand  
16 gallons for water it purchases from Pasco County. If the Company exceeds its  
17 Consumptive Use Permit allowance while base rates are set assuming this will not  
18 happen, the Company will receive a windfall ranging from \$2.03 to \$2.35 per  
19 thousand gallons on the amount it exceeds its CUP allowances by.

20  
21 Q. DO YOU RECOMMEND THAT REVENUE REQUIREMENT BE CALCULATED  
22 TO REFLECT THE FACT THAT THE COMPANY HAS HISTORICALLY

1 EXCEEDED ITS CONSUMPTIVE USE PERMIT WITHDRAWAL  
2 ALLOWANCES?

3 A. No. However, I do recommend that as part of the final order in this case, some safety  
4 measures be put into place to ensure that ratepayers are not required to pay excessive  
5 amounts for water purchases that are not ultimately made by the Company. I  
6 recommend that the Commission put in place a reporting requirement for the  
7 Company in which it reports the amounts withdrawn from each of its wells and the  
8 amounts purchased from Pasco County on a regular basis, such as quarterly. In  
9 periods in which the Company exceeds its Consumptive Use Permit allowances,  
10 thereby purchasing less water from Pasco County and withdrawing more water from  
11 its own wells at a lower cost, the Company should be required to record the price  
12 differential in a deferral account to be flowed back to ratepayers in a future  
13 proceeding. This would protect both the Company (allowing it to collect rates based  
14 on the higher Pasco County purchases) and protect ratepayers.

15  
16 Q. COULD YOU GIVE A BRIEF EXAMPLE OF HOW THE DIFFERENTIAL  
17 WOULD BE CALCULATED?

18 A. Yes. The Company's Consumptive Use Permit allows for the average gallons per day  
19 withdrawn from Well 1, which is the Mitchell well, of 449,000 gallons. On a  
20 monthly basis (assuming a 30-day month), this would be 13,470,000 gallons. Assume  
21 that the Company withdraws 18,584,000 gallons in a given month from that well.  
22 (This was the case in June 2001, per Staff Interrogatory 25.) The actual withdrawal

1 would exceed the average daily allowance for that month by 5,114,000 gallons. The  
2 royalty fee on the water withdrawn from the Mitchell well is \$0.10 per thousand  
3 gallons, which is \$2.25 less per thousand gallons than the water purchased from Pasco  
4 County. Under this scenario, the Company would defer \$11,506.50 (5,114 thousand  
5 gallons x \$2.25 per thousand gallons).

6  
7 Since the Company is permitted under its CUP to withdraw up to 1.2 times the  
8 permitted quantities for an individual well on given days so long as it does not exceed  
9 its average daily withdrawal allowances on an annual basis, the calculation of the  
10 deferral could be done on an annual basis, as opposed to the monthly basis given in  
11 the above example.

12  
13 Q. WHEN DO YOU RECOMMEND THIS DEFERRAL METHOD BEGIN?

14 A. I recommend that it begin on a prospective basis at the date the final order in this case  
15 is issued. While the Company has exceeded its CUP allowances for at least the first  
16 six months of 2001, the higher costs associated with a higher level of purchases from  
17 Pasco County have not yet been considered in setting base rates for Seven Springs  
18 water operations.

19  
20 Q. DO YOU HAVE ANY ESTIMATES OF BY HOW MUCH THE COMPANY  
21 COULD OVER-EARN IF BASE RATES ARE SET TO ASSUME THE COMPANY  
22 STAYS WITHIN ITS CUP LIMITS AND IT THEN EXCEEDS THOSE LIMITS?

1 A. Since actual data was available for the first nine months of 2001, I prepared  
2 Exhibit\_\_(DD-2), attached, demonstrating the impact of the Company exceeding its  
3 CUP permits for the first nine months of this year had base rates been in effect which  
4 assumed that the Company stayed within its CUP limits. If base rates are set on the  
5 premise that the Company will not exceed its CUP limits, thereby resulting in higher  
6 purchase water expense for purchases from Pasco County, and the Company then  
7 exceeds its CUP limits at a similar level as was experienced in the first nine months  
8 of this year, the Company would effectively receive \$427,087 more from ratepayers  
9 for purchase water expense during that period that it would actually pay out to Pasco  
10 County. This \$427,087 differential is based on the Company's actual gallons pumped  
11 and gallons purchased from Pasco County for a period of only nine months. On an  
12 annual basis, if the Company continued these water source patterns, the amount  
13 would be higher than the \$427,087 calculated on Exhibit\_\_(DD-2). I am not  
14 recommending that an adjustment be made based on the information provided in  
15 Exhibit\_\_(DD-2). The purpose of the exhibit is to demonstrate how important it is  
16 for a safety mechanism to be put in place as a result of this case to ensure that the  
17 Company does not receive windfall profits from its customers in the event that it  
18 continues to exceed its CUP limits.

19  
20 Chemical and Purchase Power Expense

21 Q. DO THE RECOMMENDED REDUCTIONS TO THE PROJECTED TEST YEAR  
22 AMOUNT OF GALLONS TO BE SOLD TO CUSTOMERS ALSO IMPACT THE



1 COMPANY'S PROJECTED LEVEL OF CHEMICAL EXPENSE AND  
2 PURCHASE POWER EXPENSE?

3 A. Yes, it should. In calculating the projected 2001 chemical expense, the Company  
4 applied its projected ERC growth rate of 4.688% and its projected inflation rate of  
5 2.5% to the historic test year chemical expense of \$89,344. This resulted in a  
6 projected test year chemical expense of \$95,871, or an increase of \$6,527. In  
7 calculating the projected 2001 purchase power expense, the Company applied its  
8 projected ERC growth rate of 4.688% to the historic test year purchase power expense  
9 of \$80,713, resulting in an increase of \$3,784.

10  
11 Q. SHOULD THE ERC GROWTH RATE BE USED IN ESTIMATING THE CHANGE  
12 IN CHEMICAL AND PURCHASE POWER EXPENSE?

13 A. No. As indicated by OPC Witness Steven Stewart, the historic test year level of water  
14 consumption was higher than normal due to weather conditions in the historic test  
15 year. The amount of chemicals and purchase power necessary would be more directly  
16 related to the total amount of water that is treated and pumped, rather than the number  
17 of customers or ERCs. Consequently, I recommend that the projected test year  
18 chemical and purchase power expenses be recalculated based on the consumption  
19 projection factor instead of the ERC growth factor.

20  
21 Q. YOU PREVIOUSLY STATED THAT THE COMPANY ALSO APPLIED AN  
22 INFLATION FACTOR TO ITS HISTORIC TEST YEAR CHEMICAL EXPENSE.

1 DO YOU RECOMMEND THAT THE INFLATION FACTOR BE APPLIED?

2 A. No, I do not. The two largest components of the Company's chemical expense are  
3 chlorine gas and Aquadene Liquid. In response to OPC Interrogatory 5, the Company  
4 provided a breakdown of the chemicals it purchased through June 2001 in both  
5 quantity and unit cost. The quantities and unit costs for chemicals purchased in the  
6 historic test year were provided in workpapers to the Company's filing. Based on a  
7 review of the information provided, the unit cost per pound for chlorine gas was \$0.47  
8 for all of 2000 and through at least June 2001. The unit cost per gallon of Aquadene  
9 Liquid was \$10.10 for all purchases in 2000 and 2001 to date. The two largest  
10 components of chemical expense have not changed and have not increased by the  
11 2.5% inflation factor. I recommend that the inflation factor not be applied to the  
12 historic test year level of chemical expense. In fact, the total chemical expense for the  
13 first seven months of 2001 was \$8,141 lower than the chemical expense for the same  
14 seven month period in 2000.

15  
16 Q. HAVE YOU PREPARED SCHEDULES SHOWING THE IMPACT OF YOUR  
17 RECOMMENDATIONS ON PROJECTED CHEMICAL EXPENSE AND  
18 PURCHASED POWER EXPENSE?

19 A. Yes. The projected test year chemical expense is calculated on Schedule B-7 and  
20 results in a \$8,303 reduction to the Company's requested level. The projected test  
21 year purchase power expense is calculated on Schedule B-8 and results in a \$5,389  
22 reduction to purchase power expense.

1        Rate Case Expense

2        Q.     IS THE OPC RECOMMENDING ANY ADJUSTMENTS TO RATE CASE  
3                EXPENSE?

4        A.     Yes. OPC Witness Hugh Larkin, Jr. recommends in his direct testimony that the  
5                Company's proposed rate case expense associated with the current case be denied.  
6                Consistent with his recommendation, I removed the Company's proposed  
7                amortization for the current case of \$111,625 on Schedule B. Additionally, I removed  
8                the proposed average unamortized balance of \$223,250 from working capital on  
9                Schedule C, page 2.

10  
11        IV.     RATE BASE

12        Accumulated Depreciation Related to Computers

13        Q.     WHAT IS THE PURPOSE OF YOUR ADJUSTMENT ON SCHEDULE C, PAGE  
14                2, FOR ACCUMULATED DEPRECIATION RELATED TO COMPUTERS?

15        A.     In the audit report for the historic test year by the Commission's Division of  
16                Regulatory Oversight, Audit Disclosure No. 1 indicated that the Company incorrectly  
17                adjusted its accumulated depreciation account when it reflected the separation of its  
18                computer equipment from its other office furniture and equipment. The separation  
19                was required in Commission Order 01-1374-PAA-WS. According to the audit report,  
20                accumulated depreciation related to computers should be increased by \$2,262 to  
21                correct the error. I reflected this revision on Schedule C, page 2.

1 Working Capital - Pilot Plant Project

2 Q. PLEASE DISCUSS THE COMPANY'S ADJUSTMENT TO INCREASE  
3 WORKING CAPITAL BY \$190,000 FOR THE PILOT PLANT PROJECT.

4 A. On MFR Schedule A-3(A), the Company increased working capital by \$190,000 for  
5 the average estimated cost of the pilot plant project, based on the amount approved in  
6 Commission Order No. PSC-01-1374-PAA-WS. On July 14, 2000, the Commission  
7 issued Order No. PSC-00-1285-FOF-WS, in which it ordered the Company to  
8 implement a pilot project to enhance water quality. The Company estimated the cost  
9 of the pilot project would be \$380,000. In Order No. PSC-01-1374-PAA-WS, dated  
10 June 27, 2001, the Commission increased working capital for the Seven Springs water  
11 system by \$190,000 for the average projected cost of the pilot project. The Company  
12 increased working capital by the \$190,000 projected average balance approved in the  
13 Order.

14  
15 Q. WHAT IS THE CURRENT STATUS OF THE PILOT PROJECT?

16 A. The current status and further details regarding the pilot project is discussed in the  
17 direct testimony of OPC witness Ted Biddy. As indicated in his testimony, the pilot  
18 program has essentially been suspended and a final report has not yet been prepared  
19 by the Company's engineer. The Company is apparently waiting until water supply  
20 issues are resolved prior to completing the pilot project.

21  
22 Q. WHAT AMOUNTS HAVE BEEN SPENT BY THE COMPANY TO DATE ON

1 THE PILOT PROJECT?

2 A. The Company records the costs associated with the Pilot Project in Account 105-02-  
3 00 - W/W Pilot Plant on its general ledger. In response to OPC Production of  
4 Document request no. 9, the Company provided its general ledger for 2001 through  
5 August. Based on the general ledger, the actual balance in the account as of August  
6 2001 was \$74,746. This is considerably lower than the total projected cost of  
7 \$380,000. Exhibit\_\_(DD-1), Schedule C-1 provides the month-end balances in the  
8 pilot project account, along with the monthly increases in the balance.

9

10 Q. CONSIDERING THE ACTUAL AMOUNT SPENT TO DATE IS  
11 CONSIDERABLY LOWER THAN THE PROJECTED COST OF \$380,000,  
12 SHOULD THE BALANCE INCLUDED IN WORKING CAPITAL BE REVISED?

13 A. Yes. The amount included as an addition to rate base for working capital should be  
14 based on the actual projected 13-month average balance for the 2001 test year, not  
15 50% of the total projected amount to be spent. As indicated previously, the Company  
16 only spent \$74,746 on the project through August 2001. It is highly unlikely that the  
17 13-month average test year balance will be \$190,000, particularly as the project has  
18 essentially been put on hold and delayed by the Company.

19

20 Q. WHAT ADJUSTMENT ARE YOU RECOMMENDING?

21 A. As shown on Schedule C-1, I recommend that working capital be reduced by  
22 \$135,730 to reflect a projected test year thirteen-month average balance of \$54,270.

1 In calculating the projected test year average balance, I used the actual balances for  
 2 each month, December 2000 through August 2001. I then estimated the monthly  
 3 level of additions for the months of September through December based on the  
 4 average monthly expenditures for the first eight months of the year. This may  
 5 actually result in a larger amount than is appropriate as the delay in the program may  
 6 result in lower amounts being spent during the last few months of the year.

7  
 8 Accumulated Amortization of Contributed Taxes

9 Q. WHAT IS THE PURPOSE OF YOUR ADJUSTMENT ON SCHEDULE <sup>C-2</sup>~~C-3~~ TO  
 10 REDUCE ACCUMULATED AMORTIZATION OF CONTRIBUTED TAXES BY  
 11 \$10,877?

12 A. In its filing, the Company made an adjustment to the average historic test year level of  
 13 accumulated amortization of contributed taxes to correct its 2000 amortization, per  
 14 Commission Order No. PSC-01-1374-PAA-WS. In that order, the Commission  
 15 required the Company to continue using the amortization rate previously adopted.  
 16 This impacted both the level of amortization and the level of accumulated  
 17 amortization. On Schedule A-3(B), it appears the Company correctly adjusted the  
 18 balance of accumulated amortization in the historic test year. However, the correction  
 19 did not carry-over into the projected test year balance in the filing.

20  
 21 Q. PLEASE EXPLAIN.

22 A. As shown on Exhibit\_\_(DD-1), Schedule C-3, the Company's adjusted average

1 historic test year balance of accumulated amortization of contributed taxes was  
2 \$180,633. In Order No. PSC-01-1374-PAA-WS, the Commission determined that the  
3 correct annual level of amortization of contributed taxes was \$30,691. The projected  
4 test year thirteen-month average level should be the corrected historic test year  
5 thirteen-month average level plus one year of amortization. This would result in a  
6 projected test year thirteen-month average level of \$211,324, not the \$222,201  
7 balance contained in the Company's filing. The Company adjusted its starting point  
8 in determining the historic test year average balance, but not in determining its  
9 projected test year average balance. As shown on Schedule C-3, accumulated  
10 amortization of contributed taxes should be reduced by \$10,877, which decreases rate  
11 base by the same amount. I would like to note that the Company does appear to have  
12 correctly reflected the Commission's approved amortization level in calculating the  
13 annual amortization in its net operating income on MFR Schedule B-1(A) of the  
14 filing.

15  
16 V. RATE OF RETURN

17 Q. ARE YOU RECOMMENDING ANY REVISIONS TO THE COMPANY'S  
18 PROPOSED RATE OF RETURN?

19 A. Yes. I am recommending three separate revisions to the Company's calculation of its  
20 proposed rate of return. All three revisions pertain to the long-term debt component  
21 of the capital structure. Specifically, I recommend the following:

- 22 – The amount of debt be increased to include all debt components in calculating

1 the capital structure.

2 – The annual amortization of the discount on the Bank of America construction  
3 loan be corrected to reflect twelve months of amortization instead of  
4 seventeen months.

5 – The interest expense for the two loans from the owner, L. L. Speers be revised  
6 to reflect the current prime rate plus 2%.

7

8 Q. PLEASE DISCUSS YOUR FIRST REVISION.

9 A. In calculating the capital structure weighting, the Company only included the two  
10 loans from its owner, Lynnda Speer, in the debt balance and excluded its other debt  
11 issues. The Company also has debt associated with two loans from Bank of America  
12 and various vehicle loans. The Commission's Division of Regulatory Oversight  
13 indicated in Disclosure No. 5 of its audit report that the Company should include all  
14 of its long term debt issues in its capital structure. I agree. On Exhibit\_\_(DD-1),  
15 Schedule D, page 2, I calculate the adjusted capital structure weighting giving effect  
16 to all debt issues. The revised capital structure calculated on page 2 is carried forward  
17 to the calculation of the overall rate of return on page 1 of Schedule D.

18

19 Q. PLEASE DISCUSS YOUR NEXT REVISION.

20 A. In its audit report, the Division of Regulatory Oversight, in Disclosure No. ~~5~~<sup>4</sup>  
21 indicated that the amortization of the issuing expense for the Bank of America  
22 construction loan used in the calculation of the effective debt cost rate included



1           seventeen months of amortization instead of twelve months. This error was carried  
2           forward by the Company in calculating the 2001 effective debt cost rate. On page 3  
3           of Schedule D, I reflect the corrected amount of annual amortization of the issuing  
4           expense, resulting in a \$1,760 reduction in the amount used by the Company in its  
5           calculations.

6  
7           Q.    WHY DO YOU RECOMMEND THAT THE INTEREST RATE APPLIED TO THE  
8           LOANS FROM L. L. SPEER BE REVISED?

9           A.    Interest on the Company's loans from the owner, Lynnda Speer, are based on prime  
10           plus 3%. In prior Commission Orders, the Commission has determined that the debt  
11           rate applied to the loans from the related party (owner) for purposes of calculating the  
12           overall rate of return should be limited to prime plus 2%. In its filing, the Company  
13           used a rate of 8.75% for these two loans. As of November 2, 2001, prime was 5.50%.  
14           Consequently, I recommend that the debt rate for the two loans from the owner be  
15           included in the calculation of the average debt cost rate at 7.50% (prime of 5.50%  
16           plus 2%). Page 3 of Schedule D calculates the revised effective cost rate for debt of  
17           8.53%.

18  
19           Q.    WHAT IS THE IMPACT OF THE COMBINATION OF YOUR THREE  
20           RECOMMENDED REVISIONS ON THE OVERALL RECOMMENDED RATE OF  
21           RETURN?

22           A.    As shown on Schedule D, page 1, my recommended revisions result in an overall rate

1 of return of 8.67%. The Company's calculated rate of return of 9.07% should be  
2 replaced by the 8.67%.

3  
4 VII. RATE DESIGN

5 Q. DOES THE OPC HAVE ANY ADDITIONAL CONCERNS BEYOND THOSE  
6 ALREADY IDENTIFIED?

7 A. Yes. In this case, the OPC is not recommending a specific rate design. However, the  
8 rate design proposal offered by the Company should not be approved without  
9 revision.

10  
11 Q. COULD YOU BRIEFLY DISCUSS THE IMPACT OF THE COMPANY'S RATE  
12 DESIGN PROPOSAL?

13 A. The rate structure, as proposed by the Company, is designed to collect all of the  
14 revenue requirement proposed by the Company in the base charge and the first  
15 consumption block. The Company then proposes that amounts collected under the  
16 second tier, which would be amounts which exceed the revenue requirement  
17 calculated in this case, be used to pay higher water bills from Pasco County, for  
18 conservation measures and for the search for alternate sources of water. As shown on  
19 MFR Schedule E-13, page 2, the Company's proposed rate design, prior to resulting  
20 conservation, would result in the Company collecting \$690,295 more in rates than the  
21 amount calculate as the Company's revenue requirement. The Company then used  
22 the conservation rate model provided by SWFWMD to estimate a reduction to this

1 amount of \$401,377 due to conservation resulting from the rate increase and rate  
2 structure. After the conservation adjustment is made, the Company's proposed rate  
3 design still results in the Company collecting \$288,918 more from ratepayers than its  
4 revenue requirement calculations support. It is this amount that the Company  
5 proposes to be used for higher purchase water costs, conservation measures and  
6 research into new water sources.

7  
8 Q. WHY SHOULD THE PROPOSED RATE DESIGN NOT BE APPROVED?

9 A. Rates should not be designed to result in the ultimate collection of revenues which  
10 exceeds the amount of revenue requirement approved by the Commission in this case.  
11 In other words, the Company's rates should not be designed to recover the additional  
12 \$288,918, as proposed by the Company. To do so would effectively result in a  
13 guarantee that the Company will recovery its authorized rate of return. Rates are set  
14 to allow the Company the opportunity to earn a reasonable rate of return, not to  
15 guarantee that the Company will earn a return. The rate structure proposed by the  
16 Company would effectively eliminate risk the Company may have at the cost to  
17 ratepayers. This is not appropriate and not consistent with ratemaking principles and  
18 standards.

19  
20 Q. WHAT ABOUT THE COMPANY'S POSITION THAT IT IS REQUIRED TO  
21 SPEND ADDITIONAL AMOUNTS ON CONSERVATION MEASURES?

22 A. If the Company wishes to collect additional amounts from ratepayers for conservation

1 measures, it should submit its proposed conservation programs and the associated  
2 costs for review by the OPC, the Commission Staff and any other parties in the  
3 proceeding, along with the estimated cost of such programs. If such information had  
4 been provided, it could have been considered for inclusion in calculating revenue  
5 requirement. The Company should not effectively be given a blank check at  
6 ratepayers expense to fund future programs and costs at its discretion. It is not  
7 appropriate to automatically include amounts in rate design to be collected from  
8 ratepayers that exceed the revenue requirement that was supported and justified in the  
9 rate case.

10  
11 Q. DOES THIS COMPLETE YOUR TESTIMONY?

12 A. Yes, it does.

1 BY MR. BURGESS:

2 Q Ms. DeRonne, would you give a brief summary of the  
3 testimony that you've prefiled?

4 A Yes, I would. What I did in this case is I reviewed  
5 the company's MFRs mainly from an accounting perspective for  
6 calculating the company's revenue requirement. In the review  
7 of the MFRs I came across several errors that had been made and  
8 I referenced those within my testimony, and to the best of my  
9 knowledge those have all been agreed to and stipulated to in  
10 this case.

11 I then addressed pension expense, and that was to  
12 update the company's numbers for more recent actuarial  
13 evaluation and to correct for an error in the company's number,  
14 which I believe that has also been agreed to.

15 I then made an adjustment for salaries and wages.  
16 The company had included ten more positions in its salary and  
17 wage expense than it actually had filled. Five of them were  
18 for new positions and five were for open positions. And I  
19 removed those as they were vacant as of the time I had written  
20 my testimony.

21 I also made an adjustment for purchased water expense  
22 where I flowed through the gallonage recommendations of OPC  
23 witness Stephen Stewart. And I followed the similar  
24 methodology as the company except I replaced the company's ten  
25 percent unaccounted for factor with a 9.2 percent, which is the

1 actual test year factor of unaccounted for water, and I  
2 calculated the impact of the OPC's recommendation to come up  
3 with an adjusted purchased water expense. And I also flowed  
4 the impact of that change in the purchased water or on the  
5 amount of gallons to be purchased from customers on the  
6 revenues. And I also recommended that a mechanism be put into  
7 place as the company has consistently exceeded its water use  
8 permits, and the revenue requirement it has calculated in this  
9 case is under the assumption that it will now come within those  
10 requirements. And since they have exceeded it historically for  
11 numerous years, I recommend that some sort of protection be put  
12 in place that rates being charged to customers are not now set  
13 under the assumption that that won't happen, that the  
14 differential caused by their overpumping or if they continue to  
15 overpump somehow be accounted for as a protection to customers.

16 I also recommended -- the OPC didn't take a direct,  
17 make a direct recommendation on rate design other than we  
18 strongly disagree with the company's proposal that the rate  
19 design be set up to collect more than what the projected  
20 revenue requirement in this case is. If the company had  
21 specific programs or conservation programs, those should be, if  
22 they are reasonable or allowable, they should be included in  
23 the revenue requirement calculation. There should not be a  
24 factor of rate design that automatically results in the company  
25 recovering more than what its calculated revenue requirement

1 is.

2 And as I state in my testimony, the OPC's primary  
3 recommendation is that no rate increase be allowed. But absent  
4 the significant quality of service concerns the OPC has the  
5 calculated revenue increase in this case would be \$635,000 as  
6 opposed to the amount requested by the company.

7 Q Ms. DeRonne, you say you flowed through the projected  
8 usage recommended in the testimony of Mr. Stewart. Did you  
9 also review the testimony of Mr. Bidy in this regard?

10 A Yes, I did. And the reason I flowed through Mr.  
11 Stewart's as opposed to Bidy was to take a more conservative  
12 approach as it had projected slightly more gallons than  
13 Mr. Bidy's had.

14 Q Thank you, Ms. DeRonne. And that completes your  
15 summary?

16 A Yes, it does.

17 MR. BURGESS: Then we tender the witness for  
18 cross-examination.

19 COMMISSIONER JABER: Thank you.

20 Mr. Wood, do you have any questions?

21 MR. WOOD: I have no questions.

22 COMMISSIONER JABER: Okay. Ms. Lytle?

23 MS. LYTLE: I have no questions for this witness.

24 COMMISSIONER JABER: Okay. Staff?

25 MR. JAEGER: Just a very few.

1 COMMISSIONER JABER: Okay.

2 MR. JAEGER: Okay. No questions for DeRonne. We'll  
3 save them for Mr. Biddy.

4 COMMISSIONER JABER: Okay. That's fine.  
5 Commissioners? Mr. Deterding?

6 MR. DETERDING: Thank you.

7 CROSS EXAMINATION

8 BY MR. DETERDING:

9 Q Good evening, Ms. DeRonne.

10 A Almost. Good late afternoon.

11 Q Yeah. I'd call it evening.

12 Isn't it true that the only reason you suggested no  
13 increase is appropriate is based upon the testimony of  
14 Mr. Larkin?

15 A Based on his testimony and recommendation, which I  
16 have a lot of confidence in as he has been doing this a lot  
17 longer than I have.

18 Q He is your boss, is he not?

19 A He's the senior partner in the firm I work for.

20 Q Okay. Give that the appropriate weight.

21 But for your testimony you would have recommended --  
22 but for his testimony you would have recommended an increase of  
23 \$635,000 though, would you not?

24 A But for the OPC's recommendation based on customer  
25 satisfaction, if you just address the revenue requirement



1 calculation based on flowing through the recommendations and  
2 adjustments absent the quality of service testimony, yes, I  
3 would have recommended it.

4 Q Which I guess the shortcut of that is but for  
5 Mr. Larkin's testimony you would have recommended the \$635,000  
6 increase?

7 A But for the concerns of the Office of Public Counsel,  
8 had Mr. Larkin not testified to that issue, I'm not saying that  
9 that would not have still been addressed.

10 Q Okay. All right. Fair enough. Have you ever  
11 prepared the MFRs --

12 COMMISSIONER JABER: Ms. DeRonne -- I'm sorry,  
13 Mr. Deterding. Hang on one second. I need you to speak right  
14 into the microphone when you answer.

15 THE WITNESS: Okay. Is this, is that -- okay.

16 BY MR. DETERDING:

17 Q Have you ever prepared the MFRs in a Florida rate  
18 case?

19 A I'm sorry. I didn't hear you.

20 Q Have you ever prepared the MFRs in a Florida rate  
21 case?

22 A No, I haven't prepared them myself.

23 Q Would you agree that bad debt expense is likely to  
24 increase within increased revenue?

25 A It could, yes.

1 Q Would you agree that it is likely to increase with  
2 increased revenue?

3 A There is a good chance it will. I'm not sure that  
4 the correlation would be an exact percentage to what was  
5 experienced in the test year. But if you do increase revenue,  
6 there may be an increase in bad debt expense.

7 Q All right. Well, we've been through this in your  
8 deposition as well.

9 A Yes.

10 Q And do you have your deposition with you?

11 A Yes, I do.

12 Q Page 14, line 20.

13 "Do you believe bad debt expense will increase as  
14 revenue increases?"

15 Answer, "It may."

16 "You don't believe it will?"

17 Answer, "There's a good chance it will."

18 Now is good chance the same as likely in your mind?

19 A Yes.

20 Q Okay. Thank you. And you stand by that answer that  
21 you gave in your deposition?

22 A Yes. My, my complete answer, if I may answer the  
23 whole --

24 Q Sure.

25 A -- is I state, "There's a good chance it will. I

1 can't tell you for sure it will. I know if you look at the  
2 company's historic bad debt expense levels, it varies from year  
3 to year. Some years it goes up, but it has also declined  
4 substantially between '99 and 2000."

5 Q Okay. Did you attempt to make an adjustment for bad  
6 debt expense to reflect the increased revenue that you propose?

7 A No, I didn't. As I said in my deposition, because of  
8 the company changing the methodology by which it accounts for  
9 bad debt expense and because of the fact that it cannot tell  
10 from its accounting records what bad debt expense is specific  
11 to each, the water versus the wastewater, I did not feel that I  
12 could come up with a proper ratio to estimate or there wasn't a  
13 historic analysis that could be done to determine what the  
14 ratio of bad expense to revenue would be on a regular basis  
15 with this company.

16 Q Isn't it true that Aloha's, in Aloha's recent rate  
17 case that bad debt expense was allocated 50/50 between water  
18 and sewer?

19 A I believe, as I said in my deposition, I was not, as  
20 I say right here on page 15, I'm not sure, I'm not sure if it  
21 was a contested issue in that case.

22 Q Okay. Well, assuming for the moment it was allocated  
23 50/50 between water and sewer and now you're proposing a  
24 different allocation methodology, isn't there a possibility  
25 that there will not be full recovery of those, of those

1 expenses?

2 A As I said again in my deposition -- first, maybe for  
3 the Commission's benefit what I had recommended for bad debt  
4 expense, what the company does, they determine the total bad  
5 debt expense for Seven Springs water and wastewater combined  
6 and then they allocated that in this case 50, well, in their  
7 revisions to this case that it be allocated 50/50 between water  
8 and wastewater.

9 My position was that it should be based more on the  
10 revenue allocation between the water and wastewater, so I  
11 recommended a different percentage than the 50/50 split.

12 And as I said in my deposition, had both the water  
13 and wastewater cases used the same test year and the same total  
14 expense level with the same test year, then, then you wouldn't  
15 fully recover it if the allocation is changed. But to the best  
16 of my knowledge they used different test years and there was a  
17 different total bad debt expense levels in those years.

18 Q But you don't think --

19 MR. JAEGER: Marty, excuse me. Could, could we go  
20 off the record for a minute? I'm confused. I hate to  
21 interrupt your deal, but is there a bad debt expense issue or  
22 what issue are you on?

23 MR. DETERDING: I was just quizzing her on her  
24 testimony.

25 MR. JAEGER: I thought we just stipulated bad debt

1 expense, Number 10, to be increased by \$1,237.

2 MR. DETERDING: You're right. I apologize. Which  
3 stipulation is that, Ralph?

4 MR. JAEGER: Number 10 is what I show. I was just  
5 wondering if there was another issue that this could be  
6 relating to.

7 MR. DETERDING: No. No. I think you're right.

8 COMMISSIONER JABER: Thank you, Staff.

9 MR. DETERDING: Yeah, thank you. Though that was my  
10 last question on the subject.

11 MR. JAEGER: I'm sorry it took so long.

12 MR. DETERDING: That's all right. I appreciate it.

13 COMMISSIONER JABER: Ms. DeRonne, if that happens  
14 again and you know the issue has been stipulated, you can tell  
15 us, too.

16 THE WITNESS: Yeah. I wasn't sure as a witness that  
17 was my place or --

18 MR. DETERDING: Well, I apologize.

19 THE WITNESS: Next time I will.

20 MR. DETERDING: Wasting everyone's time.

21 BY MR. DETERDING:

22 Q You made an adjustment to remove from expenses the  
23 cost of ten of the utility's positions that were vacant as of  
24 the date of filing the application, have you not?

25 A Correct.

1 Q You would agree that to the extent those positions  
2 have been filled now and no others have become vacant that all  
3 of those costs should be considered in rate setting, would you  
4 not?

5 A To the extent they've been filled I would like to see  
6 what salary they were filled at as compared to what was  
7 included in the original filing. And I know we have requested  
8 that as a late-filed deposition exhibit but I have not seen  
9 that yet. So I would want to compare that to what was actually  
10 included in the filing. I wouldn't just blanket say, yes,  
11 include what was in the filing. And I would want to make sure  
12 and have assurances that while those ten positions may have  
13 been filled, there aren't significant other positions that have  
14 come, become vacant in the meantime. I would want to see the  
15 whole employee compliment.

16 Q Okay. So if -- let me summarize what I think you  
17 just told me is that if these positions had been filled at the  
18 salary levels that were proposed and if there have been no  
19 other positions that have become vacant, you would agree they  
20 should be recognized in rate setting?

21 A I wouldn't disagree with it in this particular case,  
22 no.

23 Q Okay. Thank you. And your adjustment to employee  
24 benefits at the bottom of page 14 of your testimony --

25 A Yes.

1 Q -- that is entirely dependent upon your adjustment  
2 to salaries, is it not?

3 A To my adjustment to salaries pertaining to the new  
4 employee positions, yes.

5 Q Right. Okay.

6 A Or actually let me state that -- I said the new  
7 employee positions. By that I meant the five new positions and  
8 the five vacant positions.

9 Q Okay.

10 (Pause.)

11 Let me talk to you about pension benefits. Isn't it  
12 true that Aloha's employees, while not eligible to have pension  
13 benefits until after a year, the utility starts paying costs  
14 toward those pension benefits from day one for those employees?

15 A I do not believe the actuaries include in their  
16 expense calculation the employees until those employees become  
17 eligible for the plan.

18 Q But isn't it true that the utility starts incurring  
19 expense for them from day one of their employment?

20 A They're not required to provide those benefits to,  
21 the employees are not eligible for that plan until they have  
22 been there a full 12 months. And with the high employee  
23 turnover rate with this company that becomes a little bit more  
24 of a concern than what may be the norm.

25 Q Yeah. I understand. But I think we're, we're

1 talking past each other. Doesn't the utility start incurring  
2 expenses related to those employees' pension benefits from the  
3 first day of their employment?

4 A The company accrues the expense based on the  
5 actuarial evaluation. I'm not sure that the actuarial  
6 evaluation includes those employees, impacts until those  
7 employees have been there a full year.

8 Q Well, if those employees -- if the utility is paying  
9 expenses related to those pension benefits from day one, those  
10 expenses should be included for those employees, should they  
11 not?

12 A Well, they're not paying them from day one. They are  
13 factored as an accrual.

14 Q Okay.

15 A And if they're included in the calculation of the  
16 pension accrual from day one, then it would be appropriate.  
17 But I'm not sure that's the case.

18 Q Okay. I believe you said in your summary that your,  
19 that your adjustment to purchase water is based solely on the  
20 proposed adjustments from Mr. Stewart; is that correct?

21 A Well, as I said, I flow through Mr. Stewart's  
22 recommendations of the total gallons to be sold and I flow it  
23 through the methodology by which the company calculated with  
24 the exception that I changed the unaccounted for water  
25 percentage from the company's ten percent to 9.2 percent.



1 Q Okay. Now you proposed that the PSC implement a  
2 mechanism to retain jurisdiction over revenues of this company  
3 to ensure that it purchases all of its water above its permit,  
4 water use permit limits, do you not?

5 A I recommend that some mechanism be put in place to  
6 protect ratepayers to ensure that if they do continue to  
7 excessively exceed their water use permits, that ratepayers  
8 aren't still paying that \$2.35 per gallon that is assumed in  
9 setting rates in this case. So I recommend that some sort of  
10 mechanism be put in place so that the Commission can monitor  
11 that and keep track of that and so that if the company does  
12 exceed those excessively, that something could be done by the  
13 Commission to identify the amounts associated with that.

14 Q So but you propose no similar mechanism to allow the  
15 Commission to adjust rates if there are shortfalls in revenues  
16 because of consumption above or below the projected level;  
17 correct?

18 A No, I do not. The purpose of this mechanism would be  
19 to protect ratepayers because there is the unique situation  
20 where the company has exceeded its water use permits for  
21 numerous, numerous years. So I think because of that added  
22 concern there needs to be some sort of safety mechanism in  
23 place. I'm not recommending an automatic rate clause  
24 mechanism. I'm recommending that a protection be put in place  
25 in this specific issue and incidence because of the historic

1 excessive withdrawals from these wells.

2 Q Aren't there substantial repression adjustments in  
3 this case or assumptions of substantially reduced consumption  
4 in this case?

5 A I know the company has flow through in projecting  
6 their amount of gallons that need to be purchased from Pasco  
7 County assumed five percent repression factor. And I do know  
8 there is built into the rate design model factors that take  
9 into account repression.

10 Q Substantially more than that five percent you were  
11 referring to, do they not?

12 A That's my understanding. I'm not intimately familiar  
13 with the rate design model.

14 Q Okay. Are you familiar with how often the Commission  
15 has implemented rates that include an assumption that reduction  
16 in consumption will be anywhere close to that level?

17 A Not that I'm specifically aware of, no.

18 Q Okay. If this is one of the first times they've ever  
19 done such a thing, don't you think that that variability also  
20 demands some sort of mechanism for ensuring that shortfalls  
21 don't occur?

22 A No, I don't. The purpose of regulation is not to  
23 guarantee that the company recovers all its costs. You set up  
24 rates to allow the company an opportunity to earn a rate of  
25 return. If something happens and the company does not meet

1 that rate of return or it sells a lot, has to buy a lot more  
2 than what it projected in this case, it has the ability to the  
3 best of my knowledge to then come before the Commission and  
4 request a change in rates.

5 Q And you're talking about filing another rate case?

6 A I don't know if it would be a rate case or a limited  
7 proceeding.

8 Q Okay. Isn't it true that the PSC has in place  
9 existing mechanisms to review utilities' earnings?

10 A I know the company files reports with the Commission  
11 and I believe their Commission Staff reviews those reports, but  
12 I'm not sure if there's an automatic mechanism by which the  
13 Commission would make the company come in.

14 Q Doesn't the Commission have an existing annual report  
15 review for, for reviewing utilities' overearnings on an annual  
16 basis?

17 A I assume they do, but I don't know the specifics on  
18 that. I do know that if it is found the company is  
19 overearning, there would be some lag associated with that.

20 Q And if the utility is found to be underearning  
21 because of differences between this repression and actual  
22 events, then there would also be a lag in attempting to receive  
23 that rate recognition there, too; correct?

24 A There would be some lag. I know the company has the  
25 ability to request an interim increase in proceedings, but

1 there would be some lag.

2 Q Wouldn't the utility have to demonstrate that they  
3 are already experiencing that inequity between the rates as  
4 projected and the numbers as actually experienced before they  
5 could even file to get that interim rate increase?

6 A I'm not sure of the specifics of the requirements of  
7 the filing. As I said before, the reason I recommended this is  
8 the company's history of exceeding those use permits and the  
9 fact that we are calculating rates based on including all that,  
10 those additional purchases at the \$2.35 rate. And that's a  
11 significant change in this case from what has been done  
12 historically with this company.

13 Q Are you familiar with the level of fines being  
14 proposed by the Water Management District for those  
15 exceedences?

16 A To the best of my knowledge no fines have been  
17 proposed yet. And it's my understanding that based on a draft  
18 of the consent order there's a waiving of fines. That's my  
19 understanding at this point, that there have been no fines and  
20 there's something in the consent order along the lines of  
21 waiving fines.

22 Q And under what circumstances would those fines be  
23 waived under that draft you're --

24 A I don't know all the specifics of the draft. I do  
25 know it is a draft and I do know that the company to the best

1 of my knowledge hasn't been fined to this point.

2 Q Okay. Since you've brought up what the draft consent  
3 order says, do you know whether or not it, in fact, requires  
4 the utility to spend hundreds of thousand, if not millions, of  
5 dollars in order to avoid those fines?

6 A I don't, I don't know the specifics of the draft  
7 consent order. No.

8 Q Okay. Okay. What do you suppose the Water  
9 Management District would do if Aloha continued its excess  
10 pumping after receiving rates enabling it to purchase water  
11 from the county?

12 A You would have to ask the Water Management District  
13 that. I know they've been exceeding it for numerous years and  
14 nothing, no fines have been levied at this point. I don't know  
15 if for some reason that would all the sudden change going  
16 forward. You would have to ask the Water Management District  
17 that.

18 Q And your proposal is that this set-aside would exist  
19 only to the extent and if this utility exceeds its permit  
20 level?

21 A Yes. I recommend that, that there be a monitoring  
22 and potentially a set-aside where it's monitored how much the  
23 company actually withdraw, withdraws from its own wells and its  
24 affiliate-owned wells and the Mitchell well as compared to what  
25 is included in the water use permit allowance, and that the

1 amounts in excess of the annual average allowance that is  
2 provided for in the permits, some mechanism be put in place to  
3 defer that and to monitor that closely.

4 Q Aren't there portions of the permit that relate to  
5 monthly as well as annual allowances?

6 A Yes. There's an average daily allowance level and  
7 there are allowances where on particular days you can exceed it  
8 by 1.2 times, something along that level, and there are also  
9 monthly peak amounts. But the permits state that the total  
10 annual average level cannot exceed, I believe it's 2,040,000  
11 daily.

12 Q So how would you propose that this mechanism would  
13 even deal with those differences between the annual average and  
14 the daily permit level, et cetera?

15 A Well, that's why in my testimony I said that some  
16 sort of deferral calculation could be done on an annual basis  
17 because the average daily is based on the annual average daily  
18 amounts. I do acknowledge that the amounts withdrawn could  
19 vary from day to day, but the permits do provide for an  
20 average, an annual average daily amount.

21 Q Are you aware of any case in which the Florida Public  
22 Service Commission has undertaken something similar to what  
23 you're proposing?

24 A No. But I'm also not aware specifically of a case  
25 where you have a situation of this nature where the company has

1 been for years exceeding a level and now you're basing rates as  
2 though that will not happen again in the future.

3 Q Nor are you aware of any case where the Commission  
4 has assumed a reduction in consumption at the level that this  
5 case has, have you?

6 A I believe as I said earlier, not that I'm aware of.

7 Q Okay. Have you proposed any recognition of the costs  
8 for the reporting procedures that you have suggested?

9 A No, I have not. I do know that the company has to  
10 report its usage to SWFWMD already and the company does already  
11 file annual reports, maybe more than annual, I presume, to the  
12 Commission, so I'm not sure that there would be a significant  
13 incremental cost in this.

14 Q So you're suggesting that this would be an annual  
15 reporting requirement?

16 A I think it would be in the Commission's interest to  
17 keep an eye on that more than just at an annual level. I don't  
18 believe I recommend any specific reporting increment levels.

19 Q But you believe it should be more often than annual.  
20 So there would be an additional report to the PSC at a minimum.

21 A It would be nice if it were more than annually so  
22 that 12 months later everyone isn't shocked when they see these  
23 numbers.

24 Q You propose not to recognize an inflation adjustment  
25 proposed on chemicals; is that correct?

1 A Correct.

2 Q And this is because you say you've seen no increase  
3 in the price paid for chemicals for the last 18 months;  
4 correct?

5 A Yeah. I had an amount on a cost per unit of  
6 chemicals for an 18-month period provided by the company, and  
7 during that time the rate per unit paid by the company for the  
8 chemicals had not changed. And also I'd like to point out that  
9 for the first six months of 2001, which is the projected,  
10 projected test year, the company's chemical expense had  
11 actually decreased significantly. I didn't pick that up. All  
12 I did was left it at the test year level with the exception of  
13 changing it for the changes in the amount of, amount of water  
14 that would need to be treated.

15 Q Have you looked to see if those chemical expenses  
16 have, in fact, increased in the last six months?

17 A No. I only had data through July of 2001, so I did  
18 not.

19 Q And I take it by your proposing an adjustment on that  
20 basis that you don't think chemical expenses are subject to any  
21 inflation because it hasn't occurred in 18 months?

22 A I don't believe that going from the historic test  
23 year to the projected test year in this case there was a  
24 demonstration that they had increased by a level of inflation.

25 Q Okay. Have you made an attempt to test other



1 expenses of this utility to determine whether or not they're  
2 impacted by inflation more than inflation?

3 A I looked through various expense accounts but I  
4 didn't do a specific analysis on an item-by-item basis. I do  
5 know the company did not apply inflation factors to at least  
6 three accounts: That would be its legal expense, its  
7 accounting expense and its engineering expense. Those three  
8 expense accounts also did not have an inflation factor applied  
9 by the company.

10 Q Did you -- but did you go and attempt to find  
11 accounts where maybe inflation was not sufficient to recognize  
12 the actual increase in costs that you anticipated would occur?

13 A I reviewed the expense accounts and the amounts  
14 expensed by account by this company by month, but I didn't  
15 specifically go in and see how, to determine how inflation  
16 impacted each of those accounts. No.

17 Q You just, you just picked one where you found there  
18 had been no change and said inflation should not be included?

19 A What caused me to focus in particular on that account  
20 was the fact that for the first six months of 2001 as compared  
21 to the historic test year for the same six-month period there  
22 was a significant decline in the chemical expense that had been  
23 booked in that same six-month period for the next year.

24 Q Uh-huh.

25 A Due to that significant decline it caused me to take

1 a closer look at the chemical expense in particular.

2 Q Have you done any analysis of chemical expense to  
3 find out whether it is subject to those kind of fluctuations  
4 from year to year or whether it is still subject to, generally  
5 to inflationary pressures?

6 A Beyond what I've already stated I did, comparing the  
7 expense from year to year for this particular company and the  
8 actual cost by unit for that 18-month period, no.

9 Q Okay.

10 A Am I speaking loud enough for the reporter? Okay.

11 MR. DETERDING: Give us just a second.

12 (Pause.)

13 You made an adjustment, did you not, to working  
14 capital allowance based upon the actual costs that had been  
15 incurred with regard to the pilot project?

16 A Yes, I did.

17 Q And was that an adjustment that was based upon  
18 someone else's testimony or is that, is that something that  
19 you're, you're proposing on your own?

20 A As I say in my testimony, I am proposing this. And  
21 the purpose of it is to include the working capital allowance  
22 in this case on the level that was actually spent during the  
23 time period.

24 Q Okay. Isn't the utility required to continue with  
25 that pilot project to its completion?

1 A It's my understanding that they're required to.

2 Q Okay. And have you done an analysis to determine  
3 whether or not they will incur substantial additional costs in  
4 doing that, in completing it?

5 A The company has the contention that they will and I  
6 don't have any problems with the total projected costs. The  
7 issue I brought forward here is that in calculating the  
8 projected year working capital requirement of the company, the  
9 company based it on the total cost of that project divided in  
10 two. And what I recommend is that the amount in the working  
11 capital calculation be based on the amounts that were actually  
12 incurred in that 12-month period. And in my adjustment I had  
13 eight months' worth of actual and then I estimated the next  
14 four months to determine the actual impact on working capital  
15 in the rate year.

16 Q Isn't it true that the utility accounted for this in  
17 accordance with the way the Commission's order requiring this  
18 pilot project required them to do?

19 A I have no problem with the account the company  
20 recorded it in or how it's recorded on its books. So from an  
21 accounting perspective I don't believe they're not -- I believe  
22 they're in compliance with how they are required to account for  
23 it.

24 Q Well, isn't it true that they were required to  
25 account for it in an amount equal to the way they did account

1 for and that you have reduced that based upon actual  
2 expenditure versus the projected cost to complete that?

3 A I know in a previous case earlier this year for this  
4 company, I believe it was the overearnings investigation, the  
5 Commission included it in that overearnings investigation based  
6 on 50 percent of the projected costs. But now that we are  
7 complete with the rate year I recommend that it be based on the  
8 actual amounts that were actually spent by the company during  
9 that period.

10 I'm not saying they should never recover the costs of  
11 this pilot project. What I'm saying is that for calculating  
12 working capital in this case that it be based on the company's  
13 actual, the way the amounts were actually expended.

14 Q But that is contrary to the way the Commission told  
15 them to account for it in the most recent review of that issue?

16 A I'm not sure if they were specifically told that's  
17 how you have to account for it. That's how it was treated in  
18 calculating the rate base impact in that particular case.

19 Q Okay.

20 A Does that -- I hope that answers your question.

21 Q And that same treatment was recognized in interim  
22 rate setting, was it not, in this case?

23 A I'm not sure I wouldn't disagree with that. But I do  
24 know that in that interim case you were projecting amounts.  
25 Now we have the actual amounts for this 12-month period.

1 Q Do you have any knowledge of what will be expended in  
2 completing that pilot project and when?

3 A I know Mr. Bidy has testified that there has been a  
4 delay in that pilot project and I believe I read some  
5 information from the company, too. But, no, I don't know when  
6 the rest of the amounts will be spent or what the remaining  
7 projected amounts for that particular pilot project are. All I  
8 know is what has actually been spent at this point.

9 Q So you know what has actually been expended to date,  
10 is that what you said?

11 A Oh, I'm sorry. I misspoke. I know what had been  
12 expended through August of this year.

13 Q Okay.

14 A And based on Mr. Bidy's testimony there had been a  
15 delay of that project. But as of today's date I don't know  
16 what the total expense has been.

17 Q Or as of the close of the test year you don't know  
18 what has been expended?

19 A As of December 31st? No. I know the amount as of  
20 August 31st.

21 MR. DETERDING: Okay. That's all I have. Thank you.

22 THE WITNESS: You're welcome.

23 COMMISSIONER JABER: Mr. Burgess?

24 MR. BURGESS: No redirect.

25 COMMISSIONER JABER: Thank you, Ms. DeRonne. And we

1 will admit Exhibit 9 without objection.

2 MR. BURGESS: Thank you, Commissioner.

3 (Witness excused.)

4 (Exhibit 9 admitted into the record.)

5 CHAIRMAN JABER: Mr. Burgess, you can call your next  
6 witness.

7 MR. BURGESS: My next witness is Mr. Ted Bidy.

8 COMMISSIONER JABER: Let Mr. Bidy get settled on the  
9 stand. But we will take a five-minute break. Come back as  
10 soon as you can. Okay?

11 (Brief recess.)

12 COMMISSIONER JABER: Let's get back on the record.  
13 Mr. Burgess, you called Mr. Bidy to the stand.

14 MR. BURGESS: I did.

15 COMMISSIONER JABER: Okay.

16 TED L. BIDDY

17 was called as a witness on behalf of the Citizens of the State  
18 of Florida and, having been duly sworn, testified as follows:

19 DIRECT EXAMINATION

20 BY MR. BURGESS:

21 Q Mr. Bidy, would you state your name and business  
22 address for the record, please.

23 A Yes. My name is Ted Bidy. The address is 2308  
24 Clara Kee Boulevard, Tallahassee, 32303.

25 MR. BURGESS: Okay. Is that being picked up by the

1 court reporter or do you need him closer to the microphone?

2 THE COURT REPORTER: If you can get a little closer.

3 BY MR. BURGESS:

4 Q All right. Mr. Biddy, did you prefile testimony in  
5 this case?

6 A Yes, I did.

7 Q Do you have any changes that you would make to the  
8 testimony that was prefiled?

9 A Not at all, no.

10 Q If you were asked the questions that are posed in  
11 your prefiled testimony tonight, would your answers be the  
12 same?

13 A Yes, they would.

14 MR. BURGESS: Chairman Jaber, I would ask that  
15 Mr. Biddy's prefiled testimony be entered into the record as  
16 though read.

17 COMMISSIONER JABER: Yes. The prefiled testimony of  
18 Ted L. Biddy shall be inserted into the record as though read.

19 MR. BURGESS: Thank you.

20 BY MR. BURGESS:

21 Q Mr. Biddy, did you also prepare a number of exhibits  
22 that are sequentially numbered TLB-1 through TLB-10 and  
23 inclusive?

24 A Yes, I did.

25 MR. BURGESS: Chairman Jaber, may we get a -- well,

1 would you like any description of them or, I mean, there's ten  
2 of them here.

3 COMMISSIONER JABER: Right. No. We can, we can  
4 certainly introduce them as a composite exhibit. But let me  
5 ask the parties their preference. That's ten exhibits in a  
6 composite and in terms of reference in a brief and, Staff, in  
7 your recommendation, is there a benefit to breaking this up a  
8 little bit?

9 MR. BURGESS: Whatever the parties may need and  
10 desire. It doesn't matter to us.

11 MR. WHARTON: It may be the most difficult for the  
12 Staff because when I brief we're just going to say as he says  
13 on Exhibit 10. So, I mean, we could break it up, if it's your  
14 pleasure.

15 MR. JAEGER: I think we could do it all in one  
16 composite exhibit, but if you would just reference which TLB-10  
17 in exhibit --

18 MR. WHARTON: We will.

19 COMMISSIONER JABER: Sounds great. Composite Exhibit  
20 10 will be TLB-1 through TLB-10.

21 MR. BURGESS: Thank you.

22 (Exhibit 10 marked for identification.)  
23  
24  
25



1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22

**Q. WHAT IS YOUR NAME AND BUSINESS ADDRESS?**

A. My name is Ted L. Biddy. My business address is 2308 Clara Kee Boulevard, Tallahassee, Florida 32303.

**Q. BY WHOM ARE YOU EMPLOYED AND WHAT IS YOUR POSITION?**

A. I am self-employed as a professional engineer and land surveyor.

**Q. WHAT IS YOUR EDUCATIONAL BACKGROUND AND WORK EXPERIENCE?**

A. I graduated from the Georgia Institute of Technology with a B.S. degree in Civil Engineering in 1963. I am a registered professional engineer and land surveyor in Florida, Georgia, Mississippi and several other states. I was the vice-president of Baskerville-Donovan, Inc. (BDI) and the regional manager of their Tallahassee Office from April 1991 until February 1998. I left the employment of BDI on September 30, 1998. Before joining BDI in 1991, I had operated my own civil engineering firm for 21 years. My areas of expertise include civil engineering, structural engineering, sanitary engineering, soils and foundation engineering and precise surveying. During my career, I have designed and supervised the master planning, design and construction of thousands of residential, commercial and industrial properties. My work has included: water and wastewater facility design; roadway design; parking lot design; stormwater facilities design; structural design; land surveys; and environmental permitting. I have served as the principal and chief designer for numerous utility projects.

1 Among my major water and wastewater facilities designs have been a 2,000 acre  
2 development in Lake County, FL; a 1,200 acre development in Ocean Springs,  
3 MS; a 4-mile water distribution system for Talquin Electric Cooperative, Inc.  
4 and a 320-lot subdivision in Leon County, FL. As senior project manager while  
5 employed by Baskerville-Donovan, my projects included the complete  
6 refurbishment of the water supply and distribution system for the City of  
7 Apalachicola; the complete refurbishment of wastewater collection system and  
8 treatment plant for the City of Apalachicola; water and wastewater system  
9 improvements at Carrabelle; water supply and several distribution systems for  
10 developments on St. George Island; water and wastewater systems at  
11 correctional facilities for the Florida Department of Corrections; and numerous  
12 smaller water and wastewater projects.

13 **Q. WHAT ARE YOUR PROFESSIONAL AFFILIATIONS?**

14 A. I am a member of the Florida Engineering Society, National Society of  
15 Professional Engineers, Florida Institute of Consulting Engineers, American  
16 Consulting Engineers Council, American College of Forensic Examiners and the  
17 Florida Society of Professional Land Surveyors.

18 **Q. HAVE YOU PREVIOUSLY TESTIFIED BEFORE A STATE OR  
19 FEDERAL COURT AS AN ENGINEERING EXPERT WITNESS?**

20 A. Yes, I have had numerous court appearances as an expert witness for cases  
21 involving roadways, utilities, drainage, stormwater, water and wastewater  
22 facilities designs.

1 Q. HAVE YOU PREVIOUSLY TESTIFIED BEFORE THE FLORIDA  
2 PUBLIC SERVICE COMMISSION (PSC OR COMMISSION) ON  
3 ENGINEERING ISSUES IN CONNECTION WITH WATER AND  
4 WASTEWATER RATE CASES AND QUALITY OF SERVICE ISSUES?

5 A. Yes, I have testified before the PSC for Docket Nos. 940109-WU, 950495-WS,  
6 950387-SU, 951056-WS, 950387-SU, 960329-WS, 960545-WS, 971065-SU,  
7 and 991643-SU on various engineering issues and quality of service issues.

8 Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY?

9 A. The purpose of my testimony is to provide engineering testimony on the  
10 projected future water use within the service area of Aloha Utilities, Inc.  
11 (Aloha); testimony on the status of the black water problem in the Aloha service  
12 area; and to provide testimony of my engineering analysis of unaccounted for  
13 water within  
14 Aloha's service area.

15 Q. DURING YOUR STUDY OF THIS CASE WHAT DOCUMENTS DID  
16 YOU REVIEW AND WHAT INVESTIGATIONS DID YOU MAKE?

17 A. I studied all the MFR filings and exhibits as filed by the Utility, all PSC Staff  
18 and Utility correspondence and all discovery furnished by Aloha to the PSC  
19 Staff and to the Office of the Public Counsel (OPC). I also read the depositions  
20 of Aloha's president Stephen Watford, accountant Robert Nixon and engineer  
21 David Porter as taken by the PSC Staff. I also attended the depositions of these  
22 three Aloha witnesses taken by OPC.

1 I interviewed Mr. Gerald Foster of the Florida Department of Environmental  
2 Protection (FDEP) permitting and enforcement staff regarding Aloha's water  
3 supply systems in the FDEP Tampa office. I further interviewed Mr. John  
4 Parker and Mr. Steven DeSmith of the Southwest Florida Water Management  
5 District (SWFWMD) in the SWFWMD Brooksville office concerning Aloha's  
6 Water Use Permit (WUP); enforcement action presently being taken by  
7 SWFWMD against Aloha and a variety of other water use issues pertinent to  
8 Aloha. I obtained copies of the SWFWMD files on Aloha's WUP and copies of  
9 their file on enforcement action against Aloha.

10 Mr. Parker and Mr. DeSmith gave me the names of other SWFWMD personnel  
11 who had pertinent information concerning Aloha's water supply system. I  
12 interviewed these individuals by telephone and obtained some copies of file  
13 information from them. These individuals included Mr. Bart Weiss, the reverse  
14 osmosis (R/O) expert on the SWFWMD staff; Mr. Robert Peterson, overall  
15 district water use expert on the SWFWMD staff; and Ms. Rachael Link, keeper  
16 of the records of all irrigation wells within the district.

17 I also interviewed Aloha water customers Mr. Harry Hawcroft and Mr. Sabino  
18 Metta to determine the current status of the black water problem in the homes of  
19 Aloha's water customers.

20 I studied in detail the historic water use data of Aloha's customers and  
21 performed several analyses which I will discuss below. I also discovered from  
22 OPC witness Steve Stewart's investigation that the year 2000 was the driest

1 weather year since SWFWMD has kept records back to 1916.

2 **Q. DO YOU AGREE WITH ALOHA'S SCHEDULE G-9, PAGE 1 OF 4,**  
3 **PREPARED BY ENGINEER DAVID PORTER, IN WHICH HE**  
4 **DEVELOPS A WATER USE OF 500 GALLONS/DAY PER ERC AND**  
5 **PROPOSES THIS WATER USE FOR ALL FUTURE ALOHA**  
6 **CONNECTIONS ON A GOING FORWARD BASIS?**

7 A. No, I do not agree with Mr. Porter's methodology of computation or the results  
8 of his proposed water use projection.

9 **Q. PLEASE EXPLAIN WHY YOU DO NOT AGREE WITH MR.**  
10 **PORTER'S METHODOLOGY OR THE WATER USE PROJECTION**  
11 **HE PROPOSES FOR FUTURE CONNECTIONS?**

12 A. Mr. Porter furnished a single handwritten sheet for the calculation of the 500  
13 Gallons/Day/ERC that he proposes for projected water use of future connections  
14 in response to OPC's request No. 11 for production of documents. At his  
15 deposition on October 29, 2001, Mr. Porter admitted that all the data he uses in  
16 his calculation was furnished to him by Aloha's president Steve Watford and  
17 that he did not make any independent investigation concerning this water use  
18 issue. Mr. Porter simply averaged the annual average monthly demand  
19 (AAMD) per ERC for the period 7/1/00 to 6/30/01 for twelve of the newer  
20 subdivisions in the Aloha service area. The AAMDs for each of these  
21 subdivisions were furnished to him by Mr. Watford. Mr. Porter adds the  
22 AAMDs for these twelve subdivisions for this one 12-month period and divides

1 the sum by 12 to obtain an average of 15,200 Gallons/Month/ERC. He then  
2 divides this average by 30 days to obtain a value of 500 Gallons/Day/ERC  
3 which he proposes in Schedule G-9, Page 1 of 4, as a proper water use for  
4 predicting water demands of Aloha customers on a going forward basis.

5 Mr. Porter's methodology suffers from a number of flaws, to the point that I do  
6 not believe it to be a valid engineering analysis. First, as he acknowledges, he  
7 did not compile the data for the AAMD for the subdivisions himself, but  
8 accepted data from Mr. Watford for 12 subdivisions selected by Mr. Watford out  
9 of the 30 subdivisions in the Aloha service area. Mr. Watford chose the 12 most  
10 recent subdivisions which also happen to have higher monthly uses to furnish to  
11 Mr. Porter. Mr. Porter states in Schedule G-9 that it is within these newer  
12 subdivisions that the future water use will be 500 Gallons/Day/ERC due to an  
13 alleged demographic shift from retirement households to younger households  
14 with children and larger homes with larger lots. Mr. Porter admitted at his  
15 deposition that he had made no surveys or studies of these newer subdivisions to  
16 confirm his theory of a demographic shift in population.

17 Mr. Porter's use of only one 12 month period to determine the projected future  
18 water use is a serious mistake. He stated at his deposition that he felt that these  
19 latest 12 month period water use records were the best evidence of the current  
20 water use of Aloha's customers. Using a very limited time period as a data base  
21 in determining engineering projections is always suspect because one must  
22 always guard against unusual events skewing the results of projections obtained

1 from short period data bases. In this case, Mr. Porter totally ignored the fact that  
2 his data base of flows included the driest weather period on record and that  
3 heavy irrigation would have obviously skewed his resulting projection to the  
4 high side. He also ignored the fact that the flows furnished to him by Mr.  
5 Watford were from recently established subdivisions whose lawns would have  
6 been in the early stages of growing in and would have therefore required more  
7 extensive irrigation, especially during a dry weather period.

8 Mr. Porter's projection of 500 Gallons/Day/ERC is much higher than  
9 engineering design standards for water systems and the history of water use in  
10 this country. Mr. Porter, is a professional engineer, with years of experience in  
11 utility engineering. A flow value of 350 Gallons/Day/ERC is the standard  
12 design value taught in all engineering schools and is the standard in the  
13 engineering profession. Furthermore, this 350 Gallons/Day/ERC is a  
14 conservative value and historic water uses are almost always considerably below  
15 the design flow. Moreover, water use per ERC is not increasing in Florida but is  
16 decreasing due to water conservation measures being promoted by water  
17 management districts, utilities and others. Nevertheless, Mr. Porter accepted his  
18 calculated average of 500 Gallons/Day/ERC and proposed its use in calculating  
19 water to be purchased from Pasco County in 2001.

20 There is yet another unusual factor that would have tended to skew his  
21 projection to the high side for these 12 newer subdivisions. These 12 newer  
22 subdivisions are mostly located in the south portion of Aloha's service area

1 which is the portion of the service area where the “black water problem” is at its  
2 worst. One of the common practices in these areas with the black water problem  
3 is to perform extensive flushing of home systems on a frequent basis to try to  
4 improve the quality of water in the homes. This common practice has been  
5 previously testified to before the Commission by many of Aloha’s customers  
6 and obviously would cause the water usage in these areas to be higher than  
7 normal. This practice of frequent wholesale flushing of home systems is a  
8 phenomenon caused by the low quality of Aloha’s water which contains  
9 hydrogen sulfides and/or sulfates that enter home systems and reacts with copper  
10 piping in the homes resulting in a discolored and often offensive smelling water.

11 It is certainly hoped that the root problem of Aloha’s low quality water is a  
12 temporary problem since Aloha is under PSC order to find and install a solution  
13 to the problem. Therefore, any excessive usage caused by the frequent flushing  
14 of home systems in the Aloha “black water problem areas” should not be a  
15 permanent condition and should not be counted when projecting future water  
16 usage needs.

17 For all of the above reasons cited, I do not agree with Mr. Porter’s methodology  
18 of projecting future demands for new customers of Aloha and I believe that the  
19 500 Gallons/Day/ERC result of his projection should be rejected as unreasonable  
20 and in error.

21 **Q. DO YOU AGREE WITH ALOHA’S SCHEDULE G-9, PAGE 2 OF 4 IN**  
22 **WHICH MR. PORTER CALCULATES THE ADDITIONAL WATER**



1           **DEMAND IN 2001 AND THE COST OF PURCHASED WATER FROM**  
2           **PASCO COUNTY IN 2001?**

3    A.    No, I do not agree with Mr. Porter's calculation methodologies or the results he  
4           obtains for additional water demand in 2001 or the cost of purchased water from  
5           Pasco County in 2001.

6    **Q.    PLEASE EXPLAIN WHY YOU DO NOT AGREE WITH THESE**  
7           **METHODOLOGIES AND THE RESULTS MR. PORTER OBTAINED**  
8           **FOR ADDITIONAL WATER DEMAND IN 2001 AND THE COST OF**  
9           **PURCHASED WATER FROM PASCO COUNTY IN 2001?**

10   A.    Based on my discussion above concerning my belief that Mr. Porter calculated a  
11           wrong value for future connection demand of 500 Gallons/Day/ERC, I therefore  
12           believe that he starts with a false premise by using this projected demand. He  
13           simply multiplies this projected demand of 500 Gallons/Day/ERC by the  
14           projected growth of 473 ERCs in 2001 to arrive at an additional water demand  
15           for 2001 of 86,322,500 gallons. He then adds his calculated additional demand  
16           of 86,322,500 gallons to the total water sold in 2000 of 1,018,745,467 gallons to  
17           arrive at his projection of 1,105,067,967 gallons of water to be sold in 2001. He  
18           then adjusts this projected water to be sold in 2001 to allow for 10% for  
19           treatment and system losses and arrives at a total of 1,227,853,297 gallons of  
20           water required for 2001.

21           To calculate the amount of water to be purchased from Pasco County, Mr. Porter  
22           subtracts Aloha's WUP limit of 2.04 MGD (744,600,000 gallons/year) from the

1 total water required of 1,277,853,297 gallons to obtain 483,253,297 gallons to  
2 be purchased from Pasco County in 2001. Finally, to arrive at the cost of the  
3 purchased water, Mr. Porter simply multiplies the 483,253,297 gallons by Pasco  
4 County's charge of \$2.20 per 1,000 gallons to obtain the cost of purchase water  
5 for 2001 of \$1,063,157.

6 In this calculation in Schedule 9, page 2 of 4, Mr. Porter compounds his error of  
7 using a future demand of 500 Gallons/Day/ERC by adding the erroneously  
8 calculated additional demand to the amount of water sold in the year 2000.  
9 Since Mr. Porter prepared his direct testimony and his portion of the MFRs in  
10 August, he should have known the amount of water actually sold through at least  
11 June, 2001 and should have noted that water consumption was going down and  
12 not up in 2001. Aloha furnished water consumption records to the PSC Staff  
13 and to OPC through their response to Staff's interrogatory No. 25. It was a  
14 matter of common knowledge throughout Florida that the year 2000 was a very  
15 dry weather year with resulting high water demand for irrigation while the year  
16 2001 has been to date a much more normal rainfall year with resulting lower  
17 water demand for irrigation. The truth is that water consumption through June,  
18 2001 decreased by 52,412,000 gallons from water sold for the same period in the  
19 year 2000 even with one half years growth of ERCs.

20 Notwithstanding the dramatic difference in weather for the years 2000 and 2001,  
21 Aloha added its projected additional demand for ERC growth to the water sold  
22 in 2000 and called the value so obtained the projected water to be sold in 2001.

1           Since we now know the actual flows in 2001 to have decreased from year 2000,  
2           the methodologies and calculations in Schedule G-9, page 2 of 4 must be  
3           summarily rejected as erroneous.

4   **Q.   DO THE RECORDS FOR THE FIRST 6 MONTHS OF 2001**  
5           **FURNISHED BY ALOHA IN RESPONSE TO STAFF'S**  
6           **INTERROGATORY NO. 25 SHOW THAT ALOHA PURCHASED HALF**  
7           **OF THE 483,253,297 GALLONS THAT ENGINEER PORTER**  
8           **PROJECTS TO BE PURCHASED FROM PASCO COUNTY IN 2001?**

9   A.   No. The records furnished by Aloha in response to Staff 's interrogatory No. 25  
10          show that Aloha had purchased only 103,056,000 gallons from Pasco County  
11          through June of 2001. This amounts to only 42.6 percent of half of the amount  
12          that Mr. Porter projects for 2001. At this same rate of purchased water from  
13          Pasco County, a total of 206,112,000 gallons will be purchased from Pasco  
14          County in 2001 as compared to the Porter projection of 483,253,297 gallons.

15   **R.   DID ALOHA'S ACCOUNTANT USE MR. PORTER'S ERRONEOUS**  
16           **CALCULATIONS IN SCHEDULE G-9, PAGES 1 OF 4 AND 2 OF 4 TO**  
17           **CALCULATE ALOHA'S ADDITIONAL COSTS OF PURCHASED**  
18           **WATER AND REVENUE REQUIREMENT?**

19   A.   Yes, see Schedule G, pages 3 of 4 and 4 of 4 prepared by Aloha accountant  
20          Robert Nixon.

21   **Q.   HAVE YOU PREPARED ANY EXHIBITS IN SUPPORT OF YOUR**  
22           **ASSERTIONS THAT ALOHA'S ENGINEER PORTER ERRONEOUSLY**

1           **PREPARED PAGES 1 OF 2 AND 2 OF 4 OF SCHEDULE G-9 OF THE**  
2           **MFRS AND IF SO, PLEASE EXPLAIN THESE EXHIBITS?**

3    A.     Yes, I have prepared a number of exhibits that I attach hereto and will explain in  
4           order as follows:

5                     Exhibit TLB-1: This exhibit shows a calculation of historic water use  
6                     per ERC for the Aloha system. Data was taken from Schedule F-9 of the  
7                     MFRs and from Aloha's response to Staff's interrogatory No. 25. The  
8                     calculations also included the total ERC data furnished by Aloha in  
9                     Schedule F-9. The calculations extend from 1995 through 2000 and also  
10                    include the first 6 months of 2001. The calculations reveal that the water  
11                    sold per ERC was 247 gallons/day in 1995, increased to 277 gallons/day  
12                    by the year 2000 and then decreased to 264 gallons/ERC in 2001. The  
13                    calculations also show that the water use per ERC would decrease further  
14                    to 258 gallon/day when the six month water sold records are annualized  
15                    for 2001. The small water use increase per ERC from 1995 through  
16                    2000 is understandable since the SWFWMD considers the period 1990  
17                    to 2000 to be a period of drought. In like manner, the decrease in water  
18                    use per ERC in 2001 is also understandable since rainfall weather  
19                    patterns returned to near normal in 2001 in the Aloha service area.

20                    Exhibit TLB-2: This exhibit shows a comparison of Aloha Engineer  
21                    Porter's calculated cost of purchased water in 2001 from Pasco County  
22                    in Schedule G-9, page 2 of 4, to the cost of purchased water from Pasco

1 County that I computed using an annualized total for 2001 based on the  
2 records for water sold in the first 6 months of 2001. I applied the recent  
3 increased cost of Pasco County water from \$2.20 per 1,000 gallons to  
4 \$2.35 per 1,000 gallons.

5 The comparison shows that the projected cost of purchased water from  
6 Pasco County by my calculation would be \$845,749 compared to Mr.  
7 Porter's calculated cost of \$1,135,645, a difference of \$289,896.

8 Both calculations assume that Aloha will indeed purchase all of their  
9 water above their WUP with SWFWMD from Pasco County. This  
10 quantity over Aloha's WUP was calculated by my methodology as  
11 359,893,333 gallons and by Mr. Porter's methodology as 483,253,297  
12 gallons. Interestingly, the Aloha water records furnished in response to  
13 Staff's interrogatory No. 25 show that Aloha had purchased only  
14 103,056,000 gallons from Pasco County during the first 6 months of  
15 2001. This amounts to only 28.6% of the amount that I computed to be  
16 needed to be purchased from Pasco County and only 21.3% of the  
17 amount calculated by Mr. Porter. Obviously, Aloha continues to violate  
18 the limits of their WUP from SWFWMD by pumping much more from  
19 their wells than allowed by their permit. Therefore, any calculation of  
20 cost of purchased water from Pasco County for the year 2001 must be  
21 tempered with the actual records of purchased water from Pasco County  
22 rather than the total water needs above Aloha's WUP limits. From the

1 six months records furnished by Aloha to date, it appears that Aloha will  
2 only purchase about 206,112,00 gallons for year 2001 compared to the  
3 total I calculated that needed to be purchased from the County of  
4 359,893,333 gallons.

5 Exhibit TLB-3: This exhibit calculates a historic annualizing factor for  
6 the first six months sale of water as a percentage of the actual annual sale  
7 of water by Aloha. The calculation of the annualizing factors considers  
8 the six year actual data from 1995 through 2000. The average of these  
9 six years shows that 50.92% of the total annual water sales had occurred  
10 by the end of the first six months of the year. Therefore, my  
11 methodology in Exhibit TLB-2 of doubling the water sold during the  
12 first six months of 2001 to arrive at a projected total water sold for the  
13 year appears to be reasonable.

14 Exhibit TLB-1.1: In this exhibit I present a tabulation and chart of the  
15 change in water sold per ERC by Aloha over a seven year period with the  
16 data for 2001 based on the six months actual data.

17 Exhibit TLB-1.2: In this exhibit I present a tabulation and chart of the  
18 change in water sold per ERC by Aloha over a seven year period with  
19 year 2001 annualized by doubling the amount sold during the first six  
20 months.

21 **Q. DID YOU CALCULATE ALOHA'S UNACCOUNTED FOR WATER**  
22 **FOR THE PROJECTED TEST YEAR OF 2001?**

1 A. Yes, I calculated Aloha's unaccounted for water for 2001 based on the records  
2 which Aloha furnished in response to PSC Staff's interrogatory No. 25. In this  
3 response, Aloha showed a total pumped and purchased water of 603,404,141  
4 gallons through June of 2001 and total water sold of 497,022,000 gallons for the  
5 same time period. Calculating the water sold versus the total water pumped and  
6 purchased ( $497,022,000/603,404,141$ ) yields a percentage of 82.4% and  
7 therefore unaccounted for water of 17.6%. This percentage would be the same if  
8 one annualized the amounts of water sold and the amounts of water pumped and  
9 purchased by doubling the six month totals. The 17.6% unaccounted for water  
10 is of course 7.6% over the normal allowance by the PSC. If the unaccounted for  
11 water is truly 17.6% then all costs related to volume such as cost of power,  
12 chemicals, etc. should be reduced by 7.6%.

13 At the OPC deposition of Aloha's president, Stephen Watford on October 29,  
14 2001, Mr. Watford was confronted with these records that Aloha furnished in  
15 response to interrogatory and the resulting percentage of unaccounted for water.  
16 Mr. Watford's response was that there must be something wrong with the  
17 records furnished. If this is true, then let Aloha furnish the corrected records but  
18 if the records furnished are accurate, then appropriate deductions in expenses  
19 related to volume are in order.

20 As I was completing this testimony on November 6, 2001, OPC received two  
21 late filed exhibits to Mr. Watford's deposition of October 29, 2001. The first late  
22 filed exhibit by Mr. Watford was an update through September, 2001 of Aloha's

1 response to Staff's interrogatory No. 25 giving a tabulation of total water  
2 pumped and purchased through September, 2001. This late filed exhibit which I  
3 attach hereto as Exhibit TLB-9 shows a total pumped and purchased water  
4 through September, 2001 of 851,020,341 gallons. The second late filed exhibit  
5 to Mr. Watford's deposition is an update through September, 2001 of several  
6 flow factors including total water sold to customers of 731,751,000 gallons. I  
7 attach this late filed exhibit hereto as Exhibit TLB-10. Calculating the water  
8 sold versus total water pumped through September ( $731,751,000/851,020,341$ )  
9 yields a percentage of 86% and therefore unaccounted for water of 14%.  
10 Obviously the unaccounted for water varies from month to month and the full  
11 2001 records should be used for a true picture of the full projected test year of  
12 2001 for unaccounted for water.

13 Strangely, there are unexplained differences in the data shown on these two late  
14 filed exhibits to Mr. Watford's deposition. For instance, for total water pumped  
15 and purchased, one document shows 851,020,341 gallons while the other  
16 document shows 818,650,000 gallons for an unexplained difference of  
17 32,370,341 gallons.

18 Interestingly, the 731,751,000 total gallons sold to customers through  
19 September, 2001 as reported by Mr. Watford in his late filed exhibit may be  
20 approximately annualized by considering this total amount sold to customers to  
21 be about 75% (9 months/12 months) of the total projected to be sold in 2001.  
22 By this calculation, the total 2001 sales to customers would be 975,668,000



1 gallons which is slightly lower than my previous projection of 994,044,000  
2 gallons that I obtained by doubling the six month values. The annual projection  
3 using the nine month records is further proof that my six month projection was  
4 slightly conservative since the remaining records for October, November and  
5 December are not normally high usage months. Again, the actual records are  
6 showing a much lower water usage than the usage shown by Mr. Porter in  
7 Schedule G-9 of the MFRs.

8 **Q. WHAT TESTIMONY DO YOU HAVE TO OFFER CONCERNING**  
9 **ALOHA'S ALLEGED DEMOGRAPHIC SHIFT WITHIN THEIR**  
10 **SERVICE AREA TO YOUNGER CUSTOMERS WITH CHILDREN**  
11 **WITH LARGER HOMES ON LARGER LOTS?**

12 A. My testimony is based on having been in the Aloha service area on many  
13 occasions during two cases before the PSC over the last 3 years. I have not only  
14 been throughout the service area but have been in a number of the Aloha  
15 customer's homes and have discussed this very issue with Aloha customers. My  
16 observation has been that there is only a scattering of young families with  
17 children and that the vast majority of Aloha's customers are older retired people  
18 with average age of about 70 years. My observation has been that these  
19 customers have no more than an average of 2.5 occupants per household which  
20 is the same as established by the SWFWMD for this area. The customers that I  
21 have interviewed completely agree with me and my observation. I have also  
22 noted that the newer subdivisions in the southern part of Aloha's service area all

1 tend to have large houses with extensive landscaping on their lots that they  
2 irrigate regularly. Some, but not all, of these newer subdivisions have irrigation  
3 water from private wells and distribution systems owned by their homeowner's  
4 associations. A listing of permitted irrigation wells that I obtained from the  
5 SWFWMD confirmed the presence of these private irrigation wells. Not  
6 surprisingly, the subdivisions with the private irrigation wells and distribution  
7 systems have smaller Average Annual Monthly and Daily Demands from Aloha.

8 Two out of the twelve subdivisions that Mr. Porter averaged to obtain his 500  
9 Gallons/Day/ERC have these private irrigation wells and these two subdivisions  
10 (Millpond and Wyndtree) showed Average Annual Daily Demands of only 209  
11 and 322 Gallons/Day/ERC respectively. The fact that the remainder of these  
12 subdivisions had high usage per ERC which made the average equal to 500  
13 Gallons/Day/ERC only goes to prove that it was the extensive irrigation in the  
14 driest year on record in 2000 that caused the extraordinary water use.

15 In summary, I have seen nothing in the Aloha service area to support Aloha's  
16 claim of a demographic shift in population.

17 **Q. WILL YOU NOW DISCUSS YOUR INVESTIGATION INTO THE**  
18 **STATUS OF THE "BLACK WATER PROBLEM" WITHIN THE**  
19 **ALOHA SERVICE AREA AND THE PROGRESS ALOHA HAS MADE**  
20 **IN GOING FORWARD TO FIND A SOLUTION TO THIS PROBLEM?**

21 **A.** Yes, I will. I first obtained a copy of the PSC clarification order to Aloha from  
22 the past water quality issue case. The clarification order from the PSC reads as

1 follows:

2 ORDERED that Aloha Utilities, Inc. shall immediately implement a pilot  
3 project using the best available treatment alternative to enhance the water  
4 quality and to diminish the tendency of the water to produce copper  
5 sulfide in the customers' homes as set forth in the body of this Order. It  
6 is further

7 ORDERED that Aloha Utilities, Inc. shall file monthly reports with the  
8 Commission indicating the status of permitting and construction for the  
9 pilot project and the results of the pilot project on the quality of water.

10 I then went to the PSC web site and pulled up all the monthly reports from  
11 Aloha to the PSC to determine what Aloha had done in response to the PSC  
12 order. I obtained and studied copies of Aloha's monthly reports to the PSC for  
13 the months of January, 2001 through October, 2001. Through these reports,  
14 Aloha's responses to interrogatories and depositions of Aloha witnesses by PSC  
15 Staff and the OPC, I was able to piece together the history of Aloha's actions in  
16 response to the PSC order.

17 It will be remembered that Aloha proposed a packed tower aeration system as  
18 their solution to the hydrogen sulfide content in their water during the prior  
19 water quality case before the PSC. However, Mr. David Porter reports that  
20 FDEP contacted him and suggested that Aloha pilot test an ion exchange  
21 followed by clarification process known as the "MIEX DOC" process. FDEP  
22 informed Mr. Porter that the MIEX DOC process had been piloted successfully

1 by Pasco County for their water supply. Mr. Porter and Aloha apparently  
2 determined that this MIEX DOC process was the “best available treatment  
3 alternative” because Mr. Porter immediately began to meet with representatives  
4 of ORICA Watercare, owners of the MIEX DOC process and their Florida  
5 representative WesTech, Inc. to arrange for the pilot testing.

6 By the March report to the PSC, Mr. Porter reports that the small scale “bench-  
7 top” tests had been completed on the Aloha water from Well No. 9 using the  
8 MIEX system and that the testing went quite well. He and the MIEX  
9 representatives will now plan the full scale pilot testing.

10 In his April report to the PSC, Mr. Porter informs that the full scale pilot testing  
11 had been performed at well No. 9 and that the results were very encouraging  
12 with the finished water from the tests having very low hydrogen sulfide, total  
13 organic carbon, UV absorbance and color values. Mr. Porter then discusses  
14 certain modifications to be made to the testing equipment and that further testing  
15 will be performed.

16 In his May report to the PSC, Mr. Porter reports that the modified testing  
17 equipment was “mixing limited” and that further modifications would be made  
18 to the equipment for additional testing.

19 By his July report to the PSC, Mr. Porter informs that subsequent testing had  
20 been performed using pH control equipment and up-flow reactor-clarifier and  
21 that the testing went well with the MIEX process obtaining good ionic sulfide  
22 removal efficiencies. The pilot program was ended and the equipment sent back

1 to WesTech. Mr. Porter states that he will now prepare the MIEX pilot trials  
2 report that will take 30 to 45 days to complete. He also says that he will work  
3 with Orica and WesTech to develop plant process designs and cost estimates  
4 which will be included in the report.

5 From Aloha engineer Porter's reports through July, 2001, the pilot testing and  
6 the results using the MIEX process sound very good, and the reader of these  
7 reports is expecting to see Mr. Porter's final report on the MIEX process within  
8 a short time, including a design for the Aloha system and cost estimates for  
9 installation. However, in Aloha's August report, Mr. Porter tells us that "water  
10 supply issues have come up" and that "he has been looking into alternative water  
11 sources for the long term supply for Aloha." Mr. Porter reports that the  
12 development of a reverse osmosis (R/O) treatment system using brackish water  
13 may be the solution. He further states that this possible new water source may,  
14 to some extent, be combined with either the MIEX or packed tower alternative  
15 for overall solutions to the various issues which Aloha faces. Mr. Porter says  
16 that he will complete a draft of the MIEX pilot trials report and review it with  
17 FDEP prior to preparing the final report.

18 In Aloha's September, 2001 report to the PSC, Aloha engineer Porter repeats his  
19 August report verbatim and then adds, "Therefore, not only must Aloha now  
20 evaluate the different alternatives for reduction of hydrogen sulfide, but it must  
21 also evaluate these alternatives in light of their expected compatibility with the  
22 more pressing water supply needs and those alternatives that the Utility must

1 address immediately.”

2 Aloha’s October report to the PSC is simply a verbatim repeat of their  
3 September report.

4 I attach hereto as Exhibit TLB-4 copies of Aloha’s reports to the PSC from  
5 January, 2001 through October, 2001.

6 After reading Aloha’s reports on the pilot testing of the MIEX process at  
7 Aloha’s Well No. 9, I went to the web site of the MIEX product and found a  
8 paper entitled “ USE OF A CONTINUOUS ION EXCHANGE PROCESS  
9 (MIEX) TO REMOVE TOC AND SULFIDES FROM FLORIDA WATER  
10 SUPPLIES.” I printed the MIEX paper and attach it hereto as Exhibit TLB-5.

11 In this technical paper, the MIEX process is described in detail and then case  
12 studies concerning sulfide removal are discussed. The sulfide removal in bench  
13 scale tests at Aloha’s Well No. 9 are presented along with charts showing  
14 essentially complete removal of the hydrogen sulfide. The paper concludes with  
15 the statement that “Ion exchange resins can be used to remove a number of  
16 soluble contaminants of concern and trials with the MIEX resin technology have  
17 demonstrated simultaneous removal of TOC (Total Organic Carbon) and  
18 sulfides, providing a simple and economical solution to problems encountered  
19 by many utilities in Florida.” The author of the paper then acknowledges and  
20 thanks contributions to his paper including, “David Porter of David Porter  
21 Engineering Consultants for making available the results of the Aloha Utilities  
22 tests.”

1 In reading Aloha's reports to the PSC concerning the pilot testing, one is  
2 encouraged that an economical solution for hydrogen sulfide removal may have  
3 been found. But the July report suddenly reports that "water supply issues have  
4 come up." This statement leaves the impression that the water supply issue is a  
5 new issue only recently raised and the ensuing reports make it clear that Aloha  
6 intends to solve the water supply issue before proceeding further with the  
7 solution to the hydrogen sulfide ("black water") problem in their wells.

8 This posture by Aloha is indefensible. Aloha has known of their water supply  
9 problem since at least April 2, 1999 when the SWFWMD first issued Aloha an  
10 overpumping compliance notice with a demand that Aloha bring their pumping  
11 withdrawal within their permitted quantities. A second more strongly worded  
12 "Notice of Non-Compliance, overpumping" letter was sent to Aloha by the  
13 District on June 6, 2000. Then on November 11, 2000, the District's legal  
14 department sent Aloha a Notice of Violation with demands for Aloha to bring its  
15 withdrawal into compliance within 30 days or face fines and legal action.  
16 Finally, on January 5, 2001 the District sent Aloha a proposed consent order  
17 including heavy fines and provisions for Aloha to bring their withdrawal within  
18 permit limits. Negotiations have proceeded between Aloha's attorney and the  
19 District's counsel since January with the current status being that Aloha has now  
20 proposed to perform an R/O feasibility study for additional water supply.

21 During my visit and interviews with SWFWMD personnel, I obtained a copy of  
22 their entire file on the enforcement action and proposed consent order with

1 Aloha. I attach these copies hereto as Exhibit TLB-6.

2 I also placed calls to some Aloha customers and inquired as to the current status  
3 of the "black water problem." I was informed that the problem is as bad as ever  
4 and that home systems must be frequently flushed in order to use the water.

5 In summary, my investigation into the status of the black water problem and  
6 Aloha's progress in solving the problem revealed that Aloha's pilot testing  
7 seems to have found an answer but that Aloha is delaying completion of  
8 engineering studies, reports, preliminary designs, etc. until they solve their water  
9 supply problem. Aloha has obviously painted themselves into a corner by their  
10 inaction since 1999 in developing additional water supply. It is also true that  
11 different water chemistry from water purchased from Pasco County and  
12 chemistry of new water from an R/O process will all have to be taken into  
13 consideration in any MIEX system designs if these waters are mixed with the  
14 Aloha Well waters. In the meantime Aloha customers suffer with a very low  
15 quality water that is very offensive in their homes. I am informed by R/O  
16 experts in the SWFWMD that it will require 3 to 4 years from the start of an R/O  
17 feasibility study to completion of an installation. Meanwhile the customers  
18 suffer.

19 **Q. BASED ON YOUR INVESTIGATIONS, DO YOU BELIEVE THAT**  
20 **ALOHA HAS COMPLIED WITH THE COMMISSION'S ORDERS IN**  
21 **CONNECTION WITH PILOT TESTING AND REPORTS REQUIRED**  
22 **IN CONNECTION WITH ENHANCING THEIR WATER QUALITY TO**



1           **DIMINISH THE TENDENCY OF THE WATER TO PRODUCE**  
2           **COPPER SULFIDE IN THE CUSTOMERS HOMES?**

3    A.    Aloha may have complied with the letter but not the spirit of the Commission's  
4           order. Starting a pilot program which they knew or should have known would  
5           have to be suspended because of their water supply problems was only a half-  
6           hearted attempt to comply with the Commission's orders. Preparing reports for  
7           August, September and October that are essentially identical and provide no  
8           further evidence of progress is disingenuous in my opinion. It appears to me  
9           that Aloha is simply stalling on this issue, as well as the issue of overpumping  
10          beyond their permit limit.

11   **Q.    DO YOU HAVE ANY COMMENTS CONCERNING YOUR**  
12          **INTERVIEWS WITH SWFWMD PERSONNEL IN CONNECTION**  
13          **WITH ALOHA'S WATER SUPPLY PROBLEMS?**

14   A.    The SWFWMD personnel that I interviewed seem to be exasperated with their  
15          dealings with Aloha to get them to comply with the withdrawal limits of their  
16          WUP. Talking to them and reading their interoffice memorandums in the  
17          consent order file (Exhibit TLB-6) make this fact obvious. The District's  
18          technical personnel have serious doubts as to the technically feasibility of an  
19          R/O facility in the Aloha Service area. One Professional Geologist in the  
20          District's Water Use Section states in a memorandum that the R/O system  
21          proposal by Aloha "contain this Utility's typical delaying tactic and wait and see  
22          approach." This same Geologist stated in his memorandum that, "The proposed

1 R/O facility is a “red-herring” in my opinion, as I do not think FDEP would  
2 approve such a facility within the Aloha service area, due to the difficulty of  
3 disposing of the brine-water-concentrate produced during the RO process.”

4 Notwithstanding their misgivings, the SWFWMD seems to be willing to let  
5 Aloha study an R/O facility as this provision is included in the latest draft of the  
6 proposed consent order.

7 Concerning the cost of an R/O feasibility study and installation, Mr. Bart Weiss,  
8 the District’s R/O expert, estimated to me that the study would cost \$600,000 to  
9 \$700,000 and the R/O installation of a 2.5 MGD plant would cost \$15 to \$17  
10 million. Aloha’s president, Steve Watford, has testified at deposition that his  
11 engineer had given him a cost of about \$1 million for the study and \$20 to \$30  
12 million for the plant installation.

13 **Q. DOES THAT COMPLETE YOUR DIRECT TESTIMONY?**

14 **A.** Yes, it does.

1 BY MR. BURGESS:

2 Q Mr. Biddy, could you provide a summary of your  
3 testimony for the Commission, please?

4 A Yes, sir, I will. The purpose of my testimony is to  
5 provide engineering testimony concerning the Aloha request for  
6 rate increase, and in that connection I did study all the file  
7 data including the MFRs, all the testimony, all the exhibits.

8 I did then conduct interviews of the Department of  
9 Environmental Regulation, Mr. Foster who testified here,  
10 concerning any enforcement action they might have against  
11 Aloha, permit compliance issues, and the DEP's involvement in  
12 the MIEX pilot program.

13 I then went to the Suwannee River Water Management, I  
14 mean the Southwest Florida Water Management District and  
15 interviewed Mr. John Parker, who testified here this morning,  
16 and his associate Mr. Steven DeSmith.

17 From them I received the names of a number of other  
18 people in the district that I should talk to about the proposed  
19 RO project that Aloha was looking at, a Mr. Bart Weiss, who I  
20 interviewed by phone, and Mr. Robert Peterson, who is the  
21 district's overall water use expert, and a Ms. Rachael Link,  
22 who is the keeper of the records of the irrigation wells in the  
23 district.

24 I did study all the historic water use records for  
25 the Seven Springs area and I did determine the weather for the

1 last ten, 15 years. And also for Mr. Stephen Stewart's  
2 investigation I discovered that the Year 2000 had been the  
3 driest year on record since the Water Management District has  
4 been keeping records, and that would be in 1916.

5 I then did an analysis of Mr. David Porter's  
6 projections of the water use for the Aloha test here. I was  
7 very shocked to see that he had proposed the use of 500 gallons  
8 per day per ERC. I found that Mr. Porter's analysis was not a  
9 correct engineering analysis and I recommended in my testimony  
10 that it be disregarded, and I'll be happy to explain why as we  
11 go through my testimony.

12 In summary on that I did find that the water use had  
13 actually decreased during the 2001 year rather than any  
14 increase.

15 I did calculate the unaccounted for water for the  
16 Year 2001 and found it to be in excess of ten percent. I  
17 investigated the status of the black water problems in the area  
18 and also the status of the Aloha pilot program for their MIEX  
19 project and I investigated their proposed RO facility study and  
20 plant. And that's the general outline of my testimony.

21 MR. BURGESS: Thank you, Mr. Bidy.

22 Chairman Jaber, we would tender the witness for  
23 cross-examination.

24 COMMISSIONER JABER: Thank you. Mr. Wood, do you  
25 have any questions?

1 MR. WOOD: Yes.

2 CROSS EXAMINATION

3 BY MR. WOOD:

4 Q Mr. Bidy, on the pilot program --

5 A Yes, sir.

6 Q -- is the pilot program progressing today?

7 A Not to my knowledge, no, sir. It was started early  
8 in the Year 2001, went through July of 2001, and was then  
9 suspended essentially with the statement that supply problems  
10 had come up and they would have to solve them before they could  
11 go forward.

12 Q Did the pilot program, did it lead you to believe  
13 that it had been well underway?

14 A Yes, sir. It was, it essentially was finished for  
15 the bench testing and then a pilot test on Well Number 9 and  
16 showed very good results.

17 Q Were these results ever published anywhere?

18 A Yes, they were. I went to the web site, and that's  
19 one of my exhibits is the web site of, of the parent company of  
20 MIEEX, who published their paper on this. And I have that paper  
21 included in one of my exhibits, and they did quote Mr. Porter  
22 and the information he furnished in the mixed tests of the MIEX  
23 project.

24 MR. WOOD: Uh-huh. That's all the questions I have.

25 COMMISSIONER JABER: Thank you, sir.

1 Ms. Lytle?

2 MS. LYTLE: I have no questions for this witness.

3 COMMISSIONER JABER: Staff?

4 MR. JAEGER: Just a few.

5 CROSS EXAMINATION

6 BY MR. JAEGER:

7 Q Mr. Biddy, all other things being equal with respect  
8 to the average monthly temperature, as temperature increases  
9 would you expect average water consumption to also increase?

10 A Yes.

11 Q All things being equal with respect to total monthly  
12 rainfall, as precipitation increases you would expect average  
13 water consumption to decrease?

14 A To decrease, yes.

15 Q Wouldn't you also expect that as the temperature  
16 rises, the evaporation increases?

17 A Yes.

18 Q And so as the temperature rises, wouldn't you agree  
19 as evaporation increases it reduces the effect that rainfall  
20 would have on consumption?

21 A Probably so depending on the antecedent conditions  
22 that existed prior to that event you're talking about.

23 Q But you do agree that increasing temperatures affect  
24 the magnitude that rainfall reduces consumption?

25 A Yes.

1 Q Do you believe that the black water that some of the  
2 customers of Aloha are experiencing is caused by hydrogen  
3 sulfide reacting with copper pipes?

4 A Yes, I do.

5 Q And what does chlorinating do to hydrogen sulfide?

6 A Chlorinating drives the hydrogen sulfide all the way  
7 to sulfates. If you, if you, I guess if you added enough  
8 chlorine, it would drive it all the way to elemental sulphur.

9 The problem here is, as I see it, is that we have a  
10 varying raw water concentration of hydrogen sulfide. The  
11 chlorinator is set to meter out whatever it takes to oxidize,  
12 say, five parts per million of hydrogen sulfide. But  
13 periodically you get much higher concentrations coming through  
14 and essentially you use up all the chlorine and you pump  
15 hydrogen sulfide directly into the system and into the homes.  
16 I see that as far more likely than the sulfates being oxidized  
17 or being changed back to hydrogen sulfide in the hot water  
18 heaters, although that may have an effect, also. But to the  
19 extent it exists in this area, I think it's the pure hydrogen  
20 sulfide coming into the homes from time to time but not all the  
21 time.

22 Q So the solution is either to keep the hydrogen  
23 sulfide and SO<sub>4</sub> (PHONETIC), I'm sorry, the sulfate form or get  
24 rid of the sulfide completely; is that correct?

25 A Yes. The best way is to get rid of the hydrogen

1 sulfide completely.

2 Q And what are some of the processes that get rid of  
3 either 98 to 99 percent of that?

4 A Well, during the water quality case, of course, the  
5 company recommended a packed tower aeration system, very  
6 excellent system, also a very costly system. As you remember,  
7 I recommended that we go to an oxidizing pressure filter.

8 At the conclusion of that the order was that Aloha go  
9 forward with either that packed tower aeration system or  
10 another system that would dramatically decrease this hydrogen  
11 sulfide and keep it from entering the homes or any hydrogen  
12 sulfide from being a problem in the homes.

13 At the, not the insistence but I guess the  
14 recommendation of the DEP and Tampa office Aloha chose to go to  
15 a chemical process that's called a MIEX process, which is an  
16 ion exchange followed by a filtration system. It's kind of  
17 similar to what I had proposed, except it's not a pressurized  
18 system, it's an open system. And it will essentially take all  
19 the hydrogen sulfide out and from what I can read in the  
20 literature at a very economical cost.

21 Q This is the MIEX?

22 A The MIEX system, yes, sir.

23 Q Now --

24 A That's what they have tested as a pilot program. And  
25 the results are very encouraging, except for the fact that they



1 stopped in July and didn't go forward.

2 Q Now we've talked about both packed tower aeration and  
3 just, I've heard regular aeration or cascade or tray. Can you  
4 tell me the differences in those?

5 A Yes. The packed tower is a forced draft aeration  
6 that gives you much better water interface with air, which  
7 immediately takes out -- any time water that's contaminated  
8 with hydrogen sulfide comes in contact with air, it interfaces  
9 it with the air. Any hydrogen sulfide that's there, it will,  
10 it's soluble up to 3,000 parts per million, so chances are if  
11 there's a hydrogen sulfide source as there is particularly in  
12 Wells 8 and 9, that you'll have a concentration of the hydrogen  
13 sulfide. But when it enters and contacts with air, it  
14 immediately comes out a solution, it goes into the atmosphere.

15 And so a gravity type or like a ladder type aeration  
16 will get you, you know, some contact and you can, you can get a  
17 good percentage of the hydrogen sulfide out. I have used that  
18 system successfully in some areas, places.

19 A forced draft aeration system is under pressure and,  
20 therefore, gives you more exposure to air, more interface with  
21 air with the water and more removal of the hydrogen sulfide.

22 Q I may have testified. I'll let you answer the  
23 question. How much will just regular aeration -- what  
24 percentage of the hydrogen sulfide can you expect to get rid of  
25 with regular aeration?

1           A     In excess of 50 percent, maybe 65 or so for just a  
2 gravity type aeration.

3           Q     And packed tower aeration, what can you expect?

4           A     Essentially all, 98 to 100 percent. And the same  
5 thing is true with chemical systems, 98 to 100 percent.

6           Q     And how much more expensive is packed tower than  
7 regular tray?

8           A     It's, there's no comparison. A tray aeration is  
9 simply where you bring water in, just trickle it over  
10 essentially a ladder and let it interface with the atmosphere  
11 and bubble down to drop down to a containment vessel; whereas,  
12 the packed tower aeration is a pressure system and forced draft  
13 air going through the water and it's perhaps a million dollars  
14 per site that we talked about at the quality case.

15          Q     Have you done any analysis to determine how much of  
16 the hydrogen sulfide will be needed to be removed to show any  
17 improvement in the customers with the black water problem?

18          A     No, I have not specifically done that analysis.

19                I know from, from my experience with this ladder type  
20 aeration that a gravity type aeration, cascading aeration down  
21 a ladder type will remove it to the point where I've never seen  
22 the black water problem in those areas with copper plumbing.  
23 But you can only, only be sure if you get it all out, and so I  
24 think I, I would certainly be back to my same recommendation I  
25 had at the prior hearing. And this MIEX system is kind of a

1 derivative of that or a similar process and it sounds like a  
2 good system.

3 MR. JAEGER: I have no further questions.

4 COMMISSIONER JABER: Thank you.

5 COMMISSIONER PALECKI: Could I just follow-up on  
6 that? I think you said that your previous recommendation was  
7 the oxidizing pressure filter?

8 THE WITNESS: Yes, sir, I did.

9 COMMISSIONER PALECKI: If you were to have to choose  
10 between the oxidizing pressure filter or the MIEX system, which  
11 do you prefer?

12 THE WITNESS: I would like to see a little more cost  
13 on the MIEX system. I think it's -- from what I can read of  
14 the literature, it sounds like it has a, it's better from an  
15 operational standpoint. I hope it would be similar in cost,  
16 which was about \$300,000 per well that I had estimated for the  
17 pressure, oxidizing pressure filter.

18 I would lean right now towards the MIEX system based  
19 on what I've read of its record and its literature and the  
20 pilot program that was run at Well Number 9 at Aloha.

21 COMMISSIONER PALECKI: So you'd lean in favor of the  
22 MIEX but you just would like to know a little bit more about  
23 the cost?

24 THE WITNESS: Yes, sir. And it's there at that point  
25 now and has been since July to start some, you know, to

1 complete a report and a preliminary design and a cost estimate.  
2 And we've been waiting on that, frankly, since July and here we  
3 are.

4 COMMISSIONER PALECKI: Thank you.

5 CHAIRMAN JABER: Aloha?

6 MR. WHARTON: Commissioner Palecki, I hope that in  
7 furtherance of a full record that you'll make yourself a note  
8 and perhaps ask Mr. Porter about that.

9 COMMISSIONER PALECKI: Yes, I will.

10 MR. WHARTON: That oxidizing pressure filter came up  
11 in the last case and I'll bet we had done a deposition on it  
12 that was, now I don't remember all that stuff now, but it was a  
13 lot of evidence on whether or not that was appropriate.

14 MR. BURGESS: Commissioner, I think this is  
15 inappropriate for, you know, Mr. Wharton to be testifying here.  
16 Obviously Commissioner Palecki can ask whatever he wants.

17 MR. WHARTON: Okay.

18 CROSS EXAMINATION

19 BY MR. WHARTON:

20 Q Good evening, Mr. Bidy.

21 A Good evening.

22 Q Did I hear you say that you understood the Commission  
23 had issued an order directing Aloha to go forward with packed  
24 tower?

25 A No.

1 Q Okay.

2 A They had issued an order to go forward with a pilot  
3 program using either packed tower or an alternative that they  
4 deemed best. I included that order verbatim in my testimony,  
5 if you'd like me to read it.

6 Q No. That's okay. I just had misunderstood what you  
7 had said about the packed tower, the order to go to packed  
8 tower itself.

9 A Or the best alternative, I think is the way they  
10 worded it.

11 Q But you're talking about the pilot project; right?

12 A That's correct, and to issue monthly reports.

13 Q Mr. Jaeger asked you a series of questions about the  
14 relationship between temperature and rain and water usage, and  
15 every time he included the phrase "all other things being  
16 equal." Do you remember that?

17 A Yes.

18 Q Would you agree that if all other things aren't  
19 equal, that some of your answers might be different?

20 A Well, you have to consider the whole water balance  
21 equation, as I testified at deposition. And rainfall is one,  
22 of course, temperature, antecedent moisture condition, soil  
23 conditions, there's any number of factors that you need to look  
24 at in terms of drought indexes and just what you need to have  
25 as far as irrigation. That's what we're talking about here

1 primarily.

2 Q But would you agree that the type of ratios that you  
3 expressed might exist for those particular factors could be  
4 affected by such things as Water Management District  
5 restrictions? Let's say that it's both hot and it's dry but  
6 there are severe restrictions in place. That might change the  
7 relationship between the heat and the --

8 A All of those are factors that need to be considered.

9 Q Okay. Mr. Bidy, have you ever seen hydrogen sulfide  
10 in Aloha's water after it is treated but before it goes into a  
11 home?

12 A Well, we visited this issue during the quality case.  
13 I took a lab and tried to take samples of all the wells and in  
14 all the homes. I say all the homes; a series of ten or 12  
15 homes, I guess it was. As you well remember, all we could find  
16 was a superchlorinated water and no, no chemicals of any sort,  
17 not one, not even in the raw water. The Savannah Lab is a very  
18 competent and highly respected laboratory, took those samples  
19 and tested them and found nothing but highly chlorinated water.

20 Q All right. Well, since you issued the, since you  
21 mentioned the issued of superchlorination, do you recall that  
22 your testimony in that case was that Aloha must have  
23 superchlorinated the raw water wells in order for Savannah Labs  
24 to get the results that they got?

25 A Yes, I do, and I still believe that. There's no way

1 that we could have taken raw water out of Wells 8 and 9 -- in  
2 fact, every well. We found no sulfides in any raw water and  
3 simply because, I believe, and the lab told me it had a strong  
4 chlorine content, that the raw water had been spiked with  
5 chlorine. Now to what extent it was spiked, I don't know.  
6 Like I say, superchlorinated, a lot of chlorine added to the  
7 raw water.

8 Q Now let me make sure that we all understand what  
9 we're talking about. You agree that at that time, and I'm  
10 going by memory, the wells you were talking about, some of them  
11 were 500 gallons per minute and at least one was 1,000 gallons  
12 per minute?

13 A Yes, that's correct.

14 Q Okay.

15 A Well Number 1 is 1,000 gallons a minute.

16 Q And do you remember the witness from Savannah Labs  
17 indicating that she did not believe that such superchlorination  
18 could have occurred?

19 A Well, you know, I use that term "superchlorination"  
20 rather loosely. I'm saying it was spiked with chlorine. The  
21 lab said that the strong odor, and it had an odor index of 16  
22 to 20, which is way over the allowable, was a strong chlorine  
23 odor and they could find no sulfides in the water anywhere. So  
24 I concluded that the wells had been, the raw water had been  
25 doctored, and I still believe that to this day.

1 Q Well, Mr. Bidy, you provided some background. Let  
2 me ask you again. Have you ever seen hydrogen sulfide in  
3 Aloha's water after treatment but before it goes into a home?

4 A No.

5 Q Okay. Do you have any specific evidence that Aloha's  
6 treated water has hydrogen sulfide in it?

7 A That's my theory that it does from time to time  
8 because of the varying concentration from the raw water,  
9 particularly in Wells 8 and 9, which are the new wells that  
10 were built on the power line in a very low, swampy area.

11 Q But do you have any specific evidence that Aloha's  
12 treated water has hydrogen sulfide in it?

13 A Just, just the circumstantial evidence of, of the  
14 homes in that area that are fed by Wells 8 and 9 having a high  
15 incidence of the black water problem, the copper corrosion  
16 problem. And I don't for one minute believe that  
17 sulphur-reducing bacteria could change the sulfates to that  
18 extent and blacken and eat up all the copper piping in a home  
19 and cause the extent of the black water that I saw when I went  
20 to these homes where a lady could take me to her bathtub and  
21 turn on a nozzle and draw a tub full of ink. And that --

22 Q Do I --

23 A There's a tremendous amount of hydrogen sulfide  
24 getting to that copper to cause such a thing.

25 Q Do I fairly characterize your testimony that you do



1 not have any specific evidence that Aloha's treated water has  
2 hydrogen sulfide in it?

3 A Just circumstantial evidence.

4 Q Other than -- no specific; correct?

5 A I do not.

6 Q Okay. Would Aloha's water be in compliance with DEP  
7 rules if it had zero milligrams per liter chlorine residual?

8 A No.

9 Q Didn't DEP testify the utility was in compliance with  
10 all the rules?

11 A At the times of testing, yes, they sure did. They're  
12 supposed to have two-tenths of a part per million, the furthest  
13 part in the system, at all times.

14 Q Can you have a free chlorine residual in water that  
15 has hydrogen sulfide in it?

16 A No, you cannot.

17 Q Okay. Mr. Biddy, given your theory about the  
18 hydrogen sulfide in the water, how would you explain two homes  
19 side by side, one which experiences the black water problem and  
20 one which does not?

21 A I think it's a matter of use. One that's in, either  
22 sitting there vacant or on vacation or with only very little  
23 use and it sits there and reacts with the copper piping, that  
24 home would tend to have the black water problem with the  
25 presence of hydrogen sulfide versus a home that might be in

1 heavy use with water during that day.

2           And I want to emphasize that that hydrogen sulfide,  
3 my theory about the hydrogen sulfide being pumped directly into  
4 the homes is a sporadic thing. It is not, not the usual norm.  
5 The usual norm is that there is free chlorine in the system.  
6 But occasionally the, the concentration from these wells,  
7 Well 8 and 9, of the raw water is higher than the meter is set  
8 for the chlorinator. And until Aloha gets a complaint and can  
9 go out there and turn up the meter or go out and flush the  
10 system, you'll have black water or hydrogen sulfide going into  
11 these homes.

12           Q     And in the example I gave you, what if the use were  
13 approximately equal, how would you explain the phenomenon?

14           A     I'd have to look at it on a case-by-case basis. But  
15 I don't -- I believe if they were equal, they'd probably both  
16 have black water if they had enough contact time with the  
17 copper.

18           Q     Sir, you have testified in your prefiled testimony  
19 about the issue of flushing and how much water that uses in  
20 terms of your testimony about the water usage of Aloha's  
21 customers; correct?

22           A     Yes. I did not quantify how much. I said it's a  
23 factor that Mr. Porter did not consider the fact that,  
24 especially in that southwest and south area of the service area  
25 where you've got a lot of black water problem, that my

1 experience and talking with all these customers is that they  
2 flush regularly and extensively and, therefore, are forced to  
3 waste a lot of water.

4 Now I heard Mr. Porter's testimony about eight  
5 gallons per day per ERC. I have no idea if that's correct or  
6 not. I have not quantified that.

7 Q Okay. In fact, you haven't done any kind of an  
8 analysis or a report or an attempt to specifically quantify any  
9 kind of an average for people who have this problem in terms of  
10 how long they flush, how much they flush or how often they  
11 flush, have you?

12 A Well, it would be an extensive project to go and  
13 survey all these homes and, no, I have not had time nor budget  
14 to do that.

15 Q Okay. And so your evidence in that regard is  
16 anecdotal?

17 A Well, it's more than that. It's from direct  
18 interviews with these people while I was doing tests at their  
19 homes and seeing 300 customers at two different, three  
20 different meetings.

21 Q Mr. Biddy, do you have a copy of your deposition?

22 A Yes, I do.

23 Q I'd like you to look at page 20.

24 A 20?

25 Q And I guess I should ask you do you recall that I

1 took your deposition on November 28th, 2001?

2 A Yes.

3 Q And at page 20, line six.

4 Question, "Have you done any kind of an analysis or  
5 report or attempt to specifically quantify any kind of an  
6 average for people who have this problem in terms of how long  
7 they flush, how much they flush or how often they flush?

8 Answer, "No, I haven't."

9 Question, "So your evidence in that regard is  
10 anecdotal?"

11 Answer, "That's correct."

12 Do you stand by that question and answer?

13 A Well, yes. But when you say anecdotal, it's based --  
14 anecdotal in this case is, is my direct investigation with  
15 these people. It's not just hearsay.

16 Q And you haven't tried to keep any specific records  
17 about who flushes so often or for this duration or this time;  
18 correct?

19 A No. I've simply talked to a lot of the problem area  
20 owners and determined that they, they do flush a lot when they  
21 have a problem to clear the water up to a point where they can  
22 use it.

23 Q Any notes that you kept from past customer contacts  
24 in that regard you didn't even review in preparation for your  
25 participation in this case, did you?

1           A     I did go back in the prior notes of the case and  
2 looked at the different people that I had talked to and I  
3 reviewed some of the notes, and that certainly is true what I  
4 just said about the flushing.

5           Q     Well --

6           A     And I've heard before this Commission and I'm sure  
7 Ms. Jaber, who was on the last Commission, remembers as well  
8 that people talk about flushing all the time when they say they  
9 have the black water problem. It's the only way to get rid of  
10 it.

11          Q     Sir, when I took your deposition on November 28th,  
12 you had already prefiled your testimony; right?

13          A     Yes.

14          Q     Take a look at page 21 for me commencing at line  
15 three. Well, commencing at line one.

16                     "Have you kept other records of the conversations?"

17                     Answer, "I have notes from time to time on those  
18 prior cases. I don't have those prior case notes with me. We  
19 went into a number of homes and did actual sampling and testing  
20 in the homes and outside of the homes."

21                     Question, "Have you gone back and reviewed those  
22 notes in preparation for your participation in this case?"

23                     Answer, "No, I have not."

24          A     And I had not at that time.

25          Q     Okay.

1           A     But, you know, you, as you might expect, I did then  
2 go back and look at them.

3           Q     Okay. But before when you filed your testimony you  
4 had not reviewed your notes?

5           A     No. That's true.

6           Q     Okay. And, in fact, you had just relied on your  
7 prior perceptions and memories in that regard?

8           A     Yes. Yes. And it hadn't been that long.

9           Q     Now on this issue of flushing and how it affects  
10 water usage, you're not able to quantify in terms of gallons  
11 per day what flushing occurs?

12          A     I have made no attempt to quantify it. I could, with  
13 enough time and research, make a pretty good estimate of it. I  
14 heard Mr. Porter testify to eight gallons per day per ERC. I  
15 have no way to verify that.

16          Q     As we sit here today do you have any basis to  
17 disagree with Mr. Porter's conclusion?

18          A     No, I don't.

19          Q     You didn't have the budget or the time to do any kind  
20 of study or analysis in terms to quantify that into gallons per  
21 day; correct?

22          A     As far as flushing, the amount of flushing, no, I did  
23 not.

24          Q     Yes, sir. Now you agree that the Chelsea  
25 neighborhood is one that's experiencing one of the worst black

1 water problems in the Aloha service area, don't you?

2 A Yes, I do.

3 Q And you would suspect that they have irrigation water  
4 somewhere in that neighborhood because usage in the Chelsea  
5 neighborhood is very low, isn't it?

6 A That's true.

7 Q But you had a list with you, a computer printout at  
8 the deposition of irrigation wells in the Aloha service area,  
9 and you looked there and you couldn't establish there was an  
10 irrigation well in Chelsea, could you?

11 A No. But I -- there was perhaps 1,000 names or more  
12 on the list of people who had those irrigation well permits. I  
13 have no idea whether they took it out in somebody's name or  
14 whatever. I know that Wyndtree and Wyndgate both have the  
15 irrigation lines installed by the homeowners association.  
16 Chelsea, I suspect they do. I don't know that for a fact.

17 Q But you acknowledge that you told me in your  
18 deposition that if, in fact, Chelsea Place does not have an  
19 irrigation well, it's very surprising to you that they have  
20 relatively low usage and yet they've experienced a black water  
21 problem?

22 A Yes. And, of course, if Mr. Porter is correct that  
23 it's eight gallons per day per ERC, that's a small effect. And  
24 that was the very last effect that I mentioned as affecting the  
25 water usage.

1 Q And you told me regarding that particular dilemma on  
2 Chelsea Place that you didn't know what conclusions to draw  
3 from that apparent anomaly.

4 A Well, I said if that were all true as you postulated,  
5 that that would be an anomaly that I could not explain.

6 Q Let's talk about the issue of demographics. Sir, you  
7 indicate in your testimony that you haven't observed anything  
8 that would lead you to believe there's been a demographic shift  
9 in the Aloha service area; correct?

10 A That is correct.

11 Q Now you seem to indicate that you had a concern about  
12 the fact that Mr. Porter in reaching his opinions had relied on  
13 information from Mr. Watford. But, in fact, you have no reason  
14 to doubt the accuracy of the information Mr. Watford supplied  
15 to Mr. Porter, do you?

16 A No. As I explained at deposition, I, my problem with  
17 the data Mr. Watford furnished to Mr. Porter was the  
18 selectivity of the data rather than the accuracy of the data.  
19 I have no reason to doubt that it was accurate data that he  
20 pulled for each one of these subdivisions from his records.  
21 But he selected the 12 subdivisions.

22 Q Now you agree the 12 subdivisions used by Aloha when  
23 projecting water use are not the 12 highest use neighborhoods  
24 in Aloha; correct?

25 A That's correct.



1 Q But you agree that they are Aloha's 12 newest  
2 neighborhoods.

3 A They are. And they contain many of the higher usage  
4 areas.

5 Q And you agree they are all less than ten years old?

6 A Yes, they are.

7 Q And it's not your contention that Aloha handpicked  
8 these 12 neighborhoods to prove some point.

9 A Well, I, I have lots of problems with, with  
10 Mr. Porter's average of those. He did a simple average of the  
11 gallons per day per ERC, which is a mathematically meaningless  
12 number in this case.

13 For instance, he, one subdivision had 79 bills that  
14 were analyzed that had a 560 or 70 gallons per day per ERC.  
15 He, he averaged that on an equal basis with those with eight  
16 and 9,000 bills with a 220 gallon per day per ERC. That's just  
17 mathematical nonsense, and he knows, he fully knows that. You  
18 cannot do a simple average and get anything. You need to do a  
19 weighted average.

20 Q But it's not your contention that Aloha picked those  
21 12 neighborhoods to prove some point, is it?

22 A I don't know whether they did or not.

23 Q Okay.

24 A I know that they --

25 Q Thank you. Now you do agree that it's logical for

1 Aloha to assume that its growth will come in neighborhoods that  
2 aren't yet built out; right?

3 A Yes. I do agree that, that --

4 Q And conversely you agree that it wouldn't be logical  
5 for Aloha to assume that its growth will occur in neighborhoods  
6 that are built out?

7 A Yes, that's true for the future. For analyzing the  
8 past six years, as Mr. Porter did in his rebuttal testimony and  
9 exhibit thereto, obviously those subdivisions are ones that are  
10 built out now, were in the process, some stage of being built  
11 out. The 30 total subdivisions within the Aloha service area,  
12 not many of those are fully built out. Veterans Village may be  
13 nearly built out. I have seen some vacant lots, few, I grant  
14 you, just a few in Veterans Village. But of the 18 that were  
15 not selected to be in this average there are areas available.

16 MR. WHARTON: Commissioner, Chairman Jaber, I think  
17 Mr. Bidy is envious of the cross-examination done by  
18 Mr. Porter of Mr. Wood. I am getting -- I mean, that question  
19 was, it wouldn't be logical for Aloha to assume its growth will  
20 occur in neighborhoods that are built out. I think he's  
21 mentioned Mr. Porter in response to every question I've asked.  
22 We should do that on redirect.

23 MR. BURGESS: Commissioner, may I respond?

24 COMMISSIONER JABER: Mr. Burgess, your response.

25 MR. BURGESS: Yes. I, you know, whether he chooses

1 to reference Mr. Porter or not, I'm not sure that there's much  
2 of an issue on that. The fact of the matter is he's responding  
3 directly to the question. The question was does it make any  
4 sense to assume that there will be growth in these other  
5 neighborhoods? That was his question and Mr. Bidy is  
6 answering that.

7 MR. WHARTON: No.

8 MR. BURGESS: And he's in the process of answering  
9 that.

10 CHAIRMAN JABER: I'm going to overrule your  
11 objection.

12 Mr. Bidy, try to limit your responses to the  
13 question. You may start with a yes or no answer, you may  
14 elaborate, but remember that your attorney will redirect you as  
15 well.

16 THE WITNESS: All right. Thank you.

17 BY MR. WHARTON:

18 Q Now you haven't attempted to do any analysis or  
19 reports or quantifications of the kind of demographics from  
20 neighborhood to neighborhood in Aloha that would allow you to  
21 determine the age of the families living in there, have you?

22 A It's -- you would call it anecdotal. My evidence --  
23 no, I have not done that. My evidence is simply observation,  
24 having been involved in three cases, been in many of the homes,  
25 been in the neighborhood on numerous occasions.

1 Q But you would agree you haven't done any analyses or  
2 reports or quantifications of those kind of demographics?

3 A I just said that. That's correct.

4 Q Okay. And you agree that in terms of taking into  
5 account future growth in the service area that you should take  
6 into account the demographics of the families?

7 A Yes, I do.

8 Q And that would include, say, their age and whether  
9 they have children?

10 A There's a lot of factors; that, size of the lot, the  
11 lawns, so on.

12 Q Income level?

13 A Income level would play some role, yes.

14 Q Prices of the homes?

15 A Some, some, I would say some influence, yes.

16 Q The irrigation habits of the particular demographic  
17 groups?

18 A Yes. And whether or not they have reuse irrigation  
19 there or their own homeowner-piped irrigation as some do.

20 Q But you haven't attempted to quantify the number of  
21 new homes by any factor such as age, size, lawn, affluence,  
22 children or income, have you?

23 A Yeah. You asked me those questions. That's correct.  
24 And you asked me those questions at deposition and I told you  
25 that I just had not had time nor budget to do that. I'd love

1 to do it and it's something that probably needs to be done, but  
2 I have not.

3 Q Have you reviewed Mr. Watford's rebuttal testimony?

4 A Yes, I did.

5 Q And do you recall seeing Exhibit 8 to that testimony,  
6 which represented some ads for the homes and neighborhoods in  
7 Trinity?

8 A Yes, I saw that.

9 Q Are those ads for homes which are in neighborhoods  
10 where Aloha's future growth will occur?

11 A Some of them appear to be.

12 Q Are these homes like the homes that are built in,  
13 say, Veterans Village or some of the older neighborhoods in  
14 Aloha?

15 A No. They're larger homes, more expensive homes.

16 Q You wouldn't expect any of the building that's still  
17 going on in Aloha's service area to be very small homes, would  
18 you?

19 A Well, not in, not in the new subdivisions in the  
20 south portion of the service area. The remaining vacant lots  
21 in other subdivisions, I would expect them to be comparable if  
22 somebody wanted to build in those areas, including the mobile  
23 home park, the big one.

24 Q Sir, would you take a look at your deposition, page  
25 62, line 23?

1           Question, "Would you expect that any of the building  
2 that is still going on at Aloha in terms of the construction of  
3 houses would be very small houses?"

4           Answer, "No, I would not."

5           A     And that's true.

6           Q     Do you stand by that question and answer?

7           A     That's true.

8           MR. BURGESS: Excuse me. Did you have something to  
9 add to that?

10          THE WITNESS: I said most of the growth will occur in  
11 the large home area in the south part of the area.

12          BY MR. WHARTON:

13          Q     Do you agree, Mr. Biddy, that the fact that there are  
14 older, smaller homes in Aloha's service area skews the average  
15 system-wide ERCs down?

16          A     Yes.

17          Q     And do you agree that the homes that will be built in  
18 the Aloha service area on vacant lots will be more similar in  
19 characteristics to those in the 12 newer neighborhoods than to  
20 the older, smaller homes; right?

21          A     Yes.

22          Q     And Aloha provided information in discovery, didn't  
23 it, about the number of lots that were undeveloped in the 12  
24 newer neighborhoods?

25          A     I don't remember seeing the number of undeveloped

1           A     Yes, I do. And I just said that the majority will  
2 be. I wanted to point out that there will be some in other  
3 areas obviously.

4           Q     You didn't qualify your answer thusly in your  
5 deposition, did you?

6           A     Well, I am now.

7           Q     Okay. Now you aren't able to quantify at all in any  
8 of Aloha's newer neighborhoods things such as the number of  
9 pools or the average square footage of the homes, are you?

10          A     I have not done that.

11          Q     And you haven't attempted to quantify when you would  
12 expect construction will take place on the vacant lots in  
13 Aloha's newer neighborhoods, have you?

14          A     Well, the only thing I have seen is Aloha's  
15 projection, which I did not disagree with, of 473 new ERCs a  
16 year. To that extent I'm assuming we'll have that kind of  
17 growth.

18          Q     You would agree that the construction of new schools  
19 in or adjacent to a neighborhood is indicative of a belief on  
20 the part of local government that there's a need for those  
21 schools because there are going to be children in those  
22 neighborhoods?

23          A     In some part of that area, yes. There's no schools  
24 built directly in these new subdivision areas but there are new  
25 schools around the area. I've seen that. I don't know that

1 that means that they're to serve the south area.

2 Q Well, you don't know anything about the construction  
3 of any schools in the Seven Springs area, do you?

4 A No, I don't.

5 Q Okay. And you would agree that if there is a new  
6 school, that at least means that in the perception of the  
7 school board it's needed?

8 A That it's needed, yes.

9 Q And if there's more than one school, you would agree  
10 that would indicate an even greater need?

11 A Yes, I would.

12 Q Do you know whether or not, Mr. Bidy, there is, in  
13 fact, a new elementary school right in the Trinity  
14 neighborhood?

15 A I don't know that.

16 Q Okay. Now you agree that construction is proceeding  
17 at a fairly vigorous pace in Aloha's newest neighborhoods?

18 A Yeah. The 473 ERCs a year is a pretty good clip,  
19 yes.

20 Q And you would agree that Aloha's newer neighborhoods  
21 appear to be successful developments which have been  
22 successfully marketed?

23 A It appears so, yes.

24 Q Okay. Now you agree with the proposition that  
25 affluent customers in larger homes tend to use more water,



1 don't you?

2 A To some extent.

3 Q Okay.

4 A Not nearly to the extent that Mr. Porter reported.

5 Q Now I think you told me your belief is that the  
6 average age even in the newer neighborhoods is 70 years old;  
7 correct?

8 A From what I have observed by three cases and being in  
9 the neighborhoods, going in the homes, attending three  
10 hearings, that has been my observation, yes.

11 Q So, Mr. Bidy, your testimony in that regard is based  
12 on what you have just indicated and the fact that you have been  
13 in about a dozen of customer, of the customers' homes, some of  
14 which were not in the newer neighborhoods; correct?

15 A That's correct.

16 Q Okay. And you agree the percentage of customers you  
17 have had personal contact with or talked to is really a very  
18 small fraction of the total customers of Aloha?

19 A Well, as far as my personal conversations with them,  
20 yeah, it would be a small percentage.

21 Q Significantly less than one percent; right?

22 A Well, you know, it would take a long time to get  
23 around to a majority of 25,000.

24 Q Would you agree significantly less than one percent?

25 A One percent would be what, 250? Yeah, it's probably

1 somewhere around 250.

2 Q Well, let's take a look at your deposition. Page 93,  
3 line 24, right after I asked you the question about the  
4 customers you'd had personal contact with.

5 Question, "It is significantly less than one percent,  
6 isn't it?"

7 Answer, "Certainly."

8 Do you stand by that testimony?

9 A Well, you know, it would be a guess as to how many  
10 I've personally interviewed. I said a minute ago 250 might be  
11 a reasonable estimate. On reflection, thinking about all the  
12 customers I've talked to at three hearings plus the ones I've  
13 seen in the neighborhoods, that might be a good rough guess on  
14 my part as to the number I've talked to and interviewed about  
15 this system.

16 Q So are you changing the answer you gave me in your  
17 deposition?

18 A Well, I'm just, just reflecting on it and saying that  
19 one percent of the 25,000 in the area would be 250 people. So  
20 have I interviewed and talked personally to 250 people?  
21 Probably so. And so I was mistaken by agreeing with your, your  
22 --

23 Q But you've only been in about a dozen of their homes;  
24 correct?

25 A That's correct, about.

1 Q Okay. Now if you'd have had the time or budget to  
2 more closely interview a larger sample of people, you would  
3 have done that?

4 A Yeah. If, you know, to make a total study of the  
5 area, you, you would, it would be well to interview a good  
6 cross-section sample.

7 Q Let's talk about the black water program for a  
8 moment.

9 A All right.

10 Q You haven't quantified how many people you believe  
11 are affected by the black water problem, have you?

12 A No, I haven't.

13 Q And you would agree the number of people who spoke at  
14 the water quality hearing was, in fact, less than 60?

15 A It was. However, there had to be at least three, 400  
16 people there at both the morning and evening sessions, many who  
17 would have spoke, I suppose, if there had been time. We spent  
18 hours and hours and they all obviously were agreeing, as the  
19 Commission can verify, with the other testimonies. And many  
20 were, were homeowners association presidents and  
21 vice-presidents who represented 90 to 100 individuals. So --

22 Q So they claimed; right?

23 A So they claimed, yes.

24 Q Now you agree that the sulfate concentration allowed  
25 by DEP's rules is much larger than that found in Aloha's water?

1 A Yes.

2 Q In fact, that's 250; right?

3 A That is correct.

4 Q And when you measured the sulfate concentration  
5 typically found in Aloha's finished water, you found it was  
6 four or five parts per million; right?

7 A Yeah. It was very low.

8 Q Let's talk about the potential solutions to this  
9 problem in your testimony about Aloha's efforts in that regard.  
10 Now the only familiarity you have with Aloha's pilot  
11 project is that you have read all the reports from Aloha to the  
12 PSC and you've investigated the web site of the MIEX process  
13 and you've studied the case histories and the methodology of  
14 the treatment; correct?

15 A Yes. And I have pulled the technical papers on MIEX  
16 from the web site and studied those as well.

17 Q But you do agree that as Aloha is engaged in this  
18 project, it is prudent for Aloha to take into account the fact  
19 that there may be three or four water chemistries involved in a  
20 going forward basis?

21 A Yes, and I agree with that. And my point was that  
22 Aloha should have taken that into account a long time ago.  
23 They knew -- see, in July of this year Mr. Porter suddenly says  
24 in his report water supply issues have come up and I believe he  
25 even says suddenly in one of his reports or new. The

1 impression is left with the reader that all of the sudden  
2 there's a water supply issue that's come up. Well, it's just  
3 not true. They've been under citation since April of 1999.  
4 They've known of their water supply issue all this time. To  
5 say that and to stop the pilot program in its tracks and use  
6 that as an excuse in July, I thought, was rather disingenuous  
7 on their part. And then to just not do anything else until now  
8 or later was just not really going wholehearted at obeying the  
9 Commission's order.

10 Q And yet, Mr. Bidy, having said that, you agree that  
11 this latest issue of the incompatibility came up in the middle  
12 of the pilot project, don't you?

13 A Well, I know that the incompatibility problem has  
14 existed for some time with the corrosion control program of  
15 Pasco County being different from that of, practiced by the  
16 Aloha system. So they've known of -- this is not new.

17 Now the chloramine treatment that Pasco County has  
18 recently announced is a new incompatibility problem. So you've  
19 got a double incompatibility problem now to solve.

20 Q So you do agree that the latest issue of  
21 incompatibility came up in the middle of the pilot project;  
22 correct?

23 A Yes. Somewhere in the early summer, I think, of  
24 2001.

25 Q And now another issue has just come up from Pasco

1 County, hasn't it?

2 A From Pasco County?

3 Q That's correct. Of the Pasco County water that you  
4 just testified about.

5 A Yes.

6 Q Okay. And you would agree that in order to design a  
7 coherent system that would be in compliance with the rules and  
8 regs, you need to take all the water chemistries into account?

9 A Yes. And we discussed this at length at my  
10 deposition. And what I said then and I say now is that Aloha  
11 should have gone forward with investigations of partial systems  
12 that perhaps handle the area served by Wells 8 and 9 only since  
13 obviously those are the problem area wells and they were at  
14 Well 9 doing their first pilot program. I would have expected  
15 to see some kind of recommendation since the project showed  
16 high efficiency in removing hydrogen sulfide, something that  
17 might have been installed separate from the rest of the system.

18 Q And you agree that -- well, I tell you, Mr. Bidy,  
19 I'm not sure you answered the question.

20 You agree that in order to design a coherent system  
21 that would be in compliance with the rules and regs, you have  
22 to take water chemistry in account; right?

23 A And I said yes, of course.

24 Q And you agree that it would be imprudent not to do  
25 so?

1 A Of course.

2 Q And you agree that you should carefully consider  
3 water chemical interaction both when you're planning your  
4 storage facilities and your treatment facility?

5 A Yes. And the point is, my point is go do it, go on  
6 and do it. Don't, don't drag your feet forever on it.

7 Q And if you don't know what the water chemistries are  
8 going to be, you can't come up with a solution for what you  
9 perceive Aloha's problems are with regard to water quality, can  
10 you?

11 A I believe that I could have come up with some  
12 solutions for the southwest area without that by designing --

13 Q Do you agree with my statement?

14 MR. BURGESS: Excuse me. Excuse me. He's answering  
15 the question.

16 MR. WHARTON: Well, he's not really.

17 MR. BURGESS: Would you allow him to finish?

18 COMMISSIONER JABER: Mr. Wharton, he needs to  
19 complete his answer and, if you don't think he's answered it,  
20 follow-up. But let him complete his sentences.

21 THE WITNESS: Yes, I believe so. By designing a  
22 separate independent system and isolating the area served by  
23 Wells 8 and 9, I think I could have come up with a design.

24 BY MR. WHARTON:

25 Q But you agree that if you don't know what the water

1 chemistries are going to be, you're not going to be able to  
2 come up with a solution for what you perceive Aloha's problems  
3 to be with regard to water quality; isn't that true?

4 A I'm going to have to give you a yes and no answer.  
5 Yes, for the whole system. No, if you were talking about a  
6 partial system with Wells 8 and 9 since we know full well the  
7 water chemistry at Wells 8 and 9.

8 Q Mr. Bidy, do you agree that Aloha can't proceed to  
9 final design on storage or treatment until they solve this  
10 water supply problem?

11 A For the overall system that's true.

12 Q And you would agree that Aloha only learned the  
13 county was going to go to chloramine treatment just recently?

14 A Well, by recent you mean early summer of last year,  
15 I'll agree.

16 Q Okay. They learned just this, this year. Well,  
17 2001. We're now in 2002. Correct?

18 A Early summer of 2001.

19 Q Now you would not support the immediate construction  
20 of the MIEX process treatment plant right now because you think  
21 it needs to be fully investigated; correct?

22 A Well, certainly. I think that's what we've been  
23 waiting on for Mr. Porter. He said his report would be coming  
24 in 30 to 45 days. That's what he said in July. We've yet to  
25 see anything else on it except verbatim repeats of that letter.



1 Q And you're aware that Pasco County is about to  
2 substantially change its water chemistry?

3 A I am, yes.

4 Q And you would agree that the pilot project is  
5 something that was ordered by the Commission without any  
6 accounting for this whole water chemistry dilemma that Aloha  
7 finds itself in?

8 A Yes.

9 Q And if the MIEX system was put into place and then  
10 the water chemistry required a modification of that system,  
11 that modification would then need to be accomplished for the  
12 system to work properly, wouldn't it?

13 A If you're talking about the overall system, yes. If  
14 you're talking about an isolated system that used only well  
15 water from 8 and 9, no.

16 Q You would agree that -- well, sir, do you have your  
17 deposition?

18 A Yes.

19 Q Look at page 109, page (sic.) ten.

20 Question, "And just to make sure the record is clear,  
21 if the MIEX system was put into place and then the water  
22 chemistry required a modification of that system, that  
23 modification would need to be done; right."

24 Answer, "Yes, it would.

25 A What -- where are you at?

1 Q Page 109, line nine. When we talked about this in  
2 your deposition, you didn't give me this qualification about  
3 Wells 8 and 9, did you?

4 MR. BURGESS: Excuse me. I'd ask counsel to allow  
5 Mr. Bidy to look at not only the lines that he cited but the  
6 context and take his time and then respond to it.

7 MR. WHARTON: Take your time.

8 THE WITNESS: Well, certainly I did on the previous  
9 page, 108, discuss the fact about isolating around Wells 8 and  
10 9. You know, I answered the deposition the same way I'm  
11 answering here.

12 If you're talking about the overall system, yes,  
13 you've got, you can't go forward until such time as you know  
14 the full water chemistry.

15 BY MR. WHARTON:

16 Q But I just asked you the exact same question and now  
17 you're talking about Well 8 and 9. You didn't do that in the  
18 deposition, did you?

19 A Well, certainly I did. Look back at page 108. And  
20 I'm certain we discussed this at length for several minutes, so  
21 it must be on other pages as well.

22 Q Now you don't know whether the MIEX process treatment  
23 plant could be isolated just for Wells 8 or 9, do you?

24 A Don't know without studying it. But you didn't go  
25 back and look. If you look at 107, 108, you'll see the

1 discussion that I just mentioned. So don't leave the  
2 impression that we didn't talk just exactly like we're talking  
3 now about the isolated system.

4 Q Although you would agree that on page 109, line nine,  
5 when I asked you that question you didn't make that  
6 qualification?

7 A Well, you're talking about the overall system I'm  
8 assuming at that point. Yes.

9 Q You wouldn't support putting the MIEX system into  
10 place until these water chemistry questions are answered, would  
11 you?

12 A You'd have to know the water chemistry questions  
13 either for an isolated system at 8 and 9, or for the overall  
14 system you'd have to know what the water chemistry was from  
15 Pasco County and probably have, before you could do that you'd  
16 have to know what the proposed chemistry would be and be pretty  
17 confident of it with the R0 system.

18 Q It wouldn't be prudent for Aloha to go ahead with  
19 those questions outstanding, would it?

20 A Not on the overall system, no. But I said I would  
21 have thought that that would have been the first thing they  
22 would have thought about was trying an isolated system in the  
23 problem area.

24 Q But you would agree that it wouldn't be prudent to go  
25 forward with that system either until those water chemistry

1 questions were answered and it was studied?

2 A I did not say that. I said it would be if you, if  
3 you studied it and showed it to be financially feasible and you  
4 could actually technically isolate it.

5 Q Okay.

6 A I believe you could.

7 Q Setting aside these questions of the compatibility of  
8 the water supplied by the Pasco County Utility Department, if  
9 Pasco County has higher quality water than Aloha, wouldn't you  
10 agree that the more water Aloha purchases from Pasco County,  
11 the more that's going to raise the quality of the water  
12 delivered by Aloha to its customers?

13 A You're saying all things being equal, all the  
14 compatibility problems solved and so on? Yes, that's true.

15 Q Do you know whether anyone other than you has  
16 suggested that treatment of only Wells 8 and 9 is the  
17 appropriate solution to these black water concerns?

18 A I don't know any other engineer who's been  
19 investigating this for all these years as Mr. Porter and I  
20 have.

21 Q Have you ever heard Mr. Porter make that suggestion?

22 A No. But I see Mr. Porter went directly to the  
23 problem area with his pilot program, to Well 9, and did his  
24 pilot program there. I've never heard him say he would isolate  
25 the systems.

1 Q Have you ever heard DEP or any of its staff suggest  
2 that treatment only of Wells 8 and 9 is the solution?

3 A DEP doesn't get into that kind of detail.

4 Q Have you ever heard anyone, say, at the PSC suggest  
5 that?

6 A No, I have not.

7 Q Do you know whether the pilot project requirement in  
8 the PSC order suggests isolation for Wells 8 and 9?

9 A No, it doesn't mention it. I would have thought  
10 that's the first thing that Mr. Porter would have thought  
11 about. I'm sure he did. But perhaps, you know, he wasn't  
12 given the go-ahead to look into that kind of detail. I don't  
13 know. I'm not privy to what he was contracted to do.

14 Q You would agree after hearing all the evidence in the  
15 water quality case that the Public Service Commission did not  
16 see fit to isolate the pilot project to Wells 8 and 9; correct?

17 A Well, they were interested in solving the problem,  
18 and the problem is the service area served by Wells 8 and 9  
19 primarily. So, you know, I would think it would be a good  
20 solution if it were technically feasible and economically  
21 feasible, but that's something we won't know until there's some  
22 preliminary design done on a real successful pilot program.

23 Q Aloha's wells are all looped, aren't they?

24 A Yes. They're interconnected.

25 Q Okay. Now, again, do you believe that buying larger

1 quantities of water from the Pasco County Utilities Department  
2 will improve the quality of the water Aloha delivers to its  
3 customers?

4 MR. BURGESS: That's been asked and answered, so I  
5 object.

6 COMMISSIONER JABER: Sustained. It's been asked and  
7 answered.

8 MR. WHARTON: Okay.

9 BY MR. WHARTON:

10 Q Since you've indicated that you believe that buying  
11 greater quantities of water from Pasco County Utilities will  
12 improve the quality of Aloha's water, would you therefore  
13 support the purchase of greater quantities from the Pasco  
14 County Utilities Department?

15 A All things being equal, all the compatibility  
16 problems solved, yes, to the extent that it's needed to be  
17 purchased, not nearly to the extent that Mr. Porter computed.

18 Q Well, don't you agree that the water that will be  
19 purchased from Pasco County will be only the water that is  
20 necessary to provide the service over and above the water use  
21 permit limits for Aloha?

22 A I agree with that and that is a total of 744 million  
23 some odd gallons per year. Anything over that, yes, I'd  
24 support that if the compatibility problems are solved.

25 Q Now you do think Pasco County's rates are burdensome

1 to the customer though, don't you?

2 A I think they're high, yes.

3 Q Have your discussions with the Water Management  
4 District led you to believe that Aloha is unlikely to secure an  
5 increase in its withdrawal allocations prior to 2006?

6 A Yes.

7 Q And you doubt that Aloha has had any option open to  
8 them to get allocations in the last several years; correct?

9 A Aloha has not had that option as far as increasing  
10 their use permit. They have had the option of finding other  
11 water sources for the last three or four years that they  
12 haven't pursued. And I'm told by the Water Management District  
13 that, to investigate an RO system, for instance, which is what  
14 they're proposing to do in the consent order, that we're  
15 talking about three to four years before you could get it  
16 online. So, no, they haven't had the option of increasing  
17 their water use permit. But in the same vein they haven't done  
18 anything about their water supply and yet they've known about  
19 it all these years.

20 Q Do you agree that whether Aloha pumps more from its  
21 present wells than allowed by its WUP or whether they buy the  
22 water from Pasco County, there's no net effect on the water  
23 resource because these two entities are getting their water  
24 from the same source?

25 A Yeah, I do agree with that. And I would hope that,

1 you know, you could convince the Water Management District of  
2 that. And I know heretofore they've turned thumbs down on  
3 that.

4           There's something in the new consent order that I  
5 don't understand. A statement that says that they, they  
6 provided you to comply with its consent order that says so long  
7 as the permittee remains in compliance with the requirements  
8 and terms of this consent order, the district will withhold  
9 taking action against the permittee for any overpumpage with  
10 regard to its permit. That sounds like they're going to let  
11 you overpump. I'd like them to clarify that issue.

12         Q     Are you a lawyer, Mr. Bidy?

13         A     Hardly.

14         Q     Are you reading from a draft?

15         A     Yes.

16         Q     Do you know whether Aloha will have certain rights  
17 with regard to that document under the Administrative Procedure  
18 Act?

19         A     I'm sure they will, yes.

20         Q     Are you pretty much indicating that you're not real  
21 sure what that language means and that's why you'd need  
22 clarification?

23         A     Well, I said to read it, it reads as if they're going  
24 to let you overpump is what it reads like.

25         Q     But you're not sure if that's what's intended by the



1 language?

2 A I would sure like that qualified and explained by the  
3 Water Management District.

4 Q Okay. Now back to my question about Aloha pumping,  
5 overpumping from their water use permits. You would agree if  
6 Aloha would have begun to buy more water from Pasco County so  
7 as to avoid these problems with their water use permits, that,  
8 in fact, that meant the customers would have had to have  
9 started to pay a higher price at an earlier time?

10 A Perhaps so. Certainly it would have also at that --  
11 if they'd gone to that level, it would have also been  
12 investigating other sources which are going to start now, would  
13 be three years ahead in that, that investigation.

14 Q But do you agree that if Aloha would have started --

15 A I said yes.

16 Q -- purchasing water -- well, I'm asking a new  
17 question.

18 Do you agree that if Aloha started purchasing water  
19 from Pasco County at an earlier date, that that would have been  
20 revenue neutral to Aloha but the customers would have  
21 benefited?

22 A Yeah. I said yes.

23 Q Okay. Let's talk about reverse osmosis for a second.

24 A All right.

25 Q Now you don't know whether reverse osmosis was

1 available at Aloha two years ago and you're not sure whether  
2 it's available at Aloha now; right?

3 A I don't know. I'm not an expert in R0. I've talked  
4 to the experts at the Water Management District. Some of them  
5 have grave doubts as to the technical feasibility of the R0  
6 system primarily because of the difficulty in disposing of the  
7 brine concentrate effluent that's produced by the system.

8 Q Do you agree -- strike that. You do agree, don't  
9 you, that the only thing you really believe Aloha could have  
10 done three or four years ago to avoid this situation would have  
11 been to have investigated going to R0?

12 A Yes.

13 Q And you agree that the feasibility of R0 increases as  
14 the county increases its rate?

15 A That's true.

16 Q Now it's your understanding that the Water Management  
17 District is saying that if Aloha will go forward with their R0  
18 study and development, the fine for the overpumping will be  
19 waived; right?

20 A Well, it says in this draft consent order that all  
21 but \$100,000 of a \$439,000 fine would be waived, and if they  
22 went ahead and developed the R0 system, an additional \$50,000  
23 would be waived. So they are, seem to be very liberal in  
24 waiving their fines in exchange for Aloha going forward with  
25 this investigation and feasibility study and installation of

1 the R0 system.

2 Q Well, you think that it would be appropriate for the  
3 Water Management District to waive the fine if Aloha would go  
4 forward with the R0 study and development; right?

5 A Sure. I want this utility to be financially  
6 healthful, and perhaps they'd want the customers to pay for  
7 this fine.

8 Yes, I think that's very appropriate if, because this  
9 is a conservation measure as well to get brackish water and  
10 turn it into good, clean drinking water.

11 Q Now you think it would be prudent for Aloha to  
12 undertake an R0 study at this time, you personally?

13 A I absolutely do. I hope it turns out to be feasible.  
14 I'm just telling you what the experts told me.

15 Q You believe R0 is the only option available to Aloha,  
16 don't you?

17 A Well, I told -- we discussed this at deposition and I  
18 told you this, that as far as their finding additional water,  
19 yes. I told you that an option that I saw was that, you know,  
20 they stop in their tracks where they're at, they don't have the  
21 ability to go forward, they're not ready, willing and able to  
22 serve, legally serve the customers they have because they just  
23 don't have the supply. They have had to illegally pump for  
24 three years to have the supply. Therefore, it would seem to me  
25 with a system setting right there with the county that

1 negotiation with them for sell of part of the territory or  
2 whatever or perhaps the Public Service Commission insisting on  
3 that is another alternative.

4 Q But you didn't indicate to me in deposition that  
5 given the position of the Water Management District about  
6 increasing allocation, the allocations in Aloha's WUPs, you  
7 thought that going to R0 was all Aloha could do.

8 A Yes.

9 Q Okay. Now the R0 feasibility study would be a very  
10 involved process, wouldn't it?

11 A Yes. I'm told it's a 12-month study that will cost  
12 600 to \$700,000.

13 Q And it's your understanding the Water Management  
14 District's position is that they would support Aloha going  
15 forward with an R0 study?

16 A And pay for it apparently. The draft consent order  
17 says that they will process the application for grants to pay  
18 for it.

19 Q Is the reason that you do such a study so that you'll  
20 know whether the R0 plant is economically and technically  
21 feasible?

22 A Absolutely.

23 Q And would the study also look at what the quality of  
24 the water would be and how the treatment would affect the  
25 water?

1 A Of course.

2 Q You would expect the Water Management District to  
3 actually encourage the feasibility study?

4 A They have. Yes.

5 Q Now you -- I asked you kind of a variation of this  
6 question earlier. You would agree that the fact that Pasco  
7 County's water was cheaper a couple of years ago affected the  
8 financial feasibility of pursuing an RO plant?

9 A I don't know that it did. You asked me the question  
10 of the higher the price of the county's water, the better, more  
11 feasible perhaps an RO system would be, and I said yes. I  
12 don't know and neither do they until they run the study what  
13 it's going to cost them per thousand gallons to put in an RO  
14 plant.

15 Q But you would agree the fact that Pasco County's  
16 water was cheaper a couple of years ago affected the financial  
17 feasibility of pursuing such a project to some extent?

18 A Well, they didn't run a study, so how could we know?  
19 You would think intuitively, yes. But since a study hasn't  
20 been run, we don't know.

21 Q Well, I'm confused by your answer though. The  
22 question is whether if because Pasco County was cheaper it made  
23 less sense to even undertake the study?

24 A Again, it depends on what you find out in the RO  
25 feasibility study. You might have found it cheaper. But

1 you're probably right. I'll give you that.

2 Q Now other than reading the reports Aloha has filed,  
3 you don't really have any personal knowledge as to Aloha's  
4 diligence in pursuing the study of the pilot project, do you?

5 A That's correct.

6 Q We talked a little bit earlier about Pasco County's  
7 water. You're not aware of any chemical constituents that  
8 render Pasco County Utility Department's water of a higher  
9 quality than Aloha, are you?

10 A I don't have a chemical analysis for the water. I've  
11 heard the testimony about the treatment process they use.  
12 Start out with aeration, which is an excellent start, and then  
13 go through pH adjustment and some other, chlorination, of  
14 course. So it sounds like they do extensive treatment, enough  
15 to where DEP says they have no complaints from Pasco County.

16 Q But just to make sure the record is clear, you're not  
17 aware of any chemical constituents that render Pasco County's  
18 water of a higher quality than Aloha's; right?

19 A No, I'm not.

20 Q Okay. Let's talk about this issue of water usage for  
21 a moment.

22 Now you believe the weather started changing rather  
23 dramatically in March of 2001?

24 A I think somewhere along in that timeframe, yes, it  
25 did. 2001, early summer, late spring you started having a much

1 more normal rainfall and the year turned out to be essentially  
2 a normal rainfall year.

3 Q Now the Water Management District considered the  
4 period 1990 to 2000 to be a period of drought in Aloha's  
5 service area, didn't it?

6 A Absolutely did, yes.

7 Q When you were viewing the six years' worth of data  
8 for Aloha, water usage by Aloha's customers increased every  
9 year, didn't it?

10 A Up to the Year 2000 and then decreased in the Year  
11 2001 based on the actual records.

12 Q Yeah. But you don't have the complete Year 2001, do  
13 you?

14 A Well, we'll have them by tomorrow. We have nine  
15 months of them right now and you are under orders to give the  
16 Staff the rest of the interrogatories that they've asked you  
17 for.

18 Q I don't believe that's one of the questions.

19 A I was told it was by Mr. Jaeger.

20 Q That ain't what we wrote down at dinner. So that's a  
21 surprise to me, if it is.

22 A Mr. Jaeger thinks it is.

23 Q He's shaking his head no. Because I've got, I'm  
24 going to work late tonight, if it is.

25 COMMISSIONER JABER: You should work late night

1 tonight anyway so that tomorrow can go much nicer.

2 MR. WHARTON: That's fine. I meant really late.

3 THE WITNESS: Well, my point is that they're  
4 available surely because, you know, we're in January and  
5 they've sent the December bills out by now. So it's just a  
6 matter of pulling those records from their computer and we'll  
7 have whatever it is. We've got them through September already.

8 BY MR. WHARTON:

9 Q Do you believe that 2001 in terms of rainfall was an  
10 aberration over the last 11 years?

11 A It was a normal year based on the historic average.  
12 But, yes, the end of a very severe ten-year drought.

13 Q So you would agree it was an aberration over the last  
14 11 years?

15 A Well, you say aberration. It was a normal year that  
16 followed a ten-year drought.

17 Q Well, take a look at page 38 of your deposition,  
18 Mr. Bidy, page 38, line 11.

19 Question, "Would you agree that -- let me ask it this  
20 way. Do you consider 2001 in terms of rainfall to be an  
21 aberration over the last 11 years?"

22 Answer, "Yes."

23 Do you stand by that answer?

24 A Well, yeah, you can see where I put a big question  
25 mark by that on my copy of the deposition.



1 Q You were kind of sorry you said that, is that why you  
2 wrote a question mark?

3 A Well, no. It's not an aberration. It's a change, of  
4 course, from those ten year, ten drought years, but it's not an  
5 aberration. It's a --

6 Q All right.

7 A Based on averages it's pretty normal. So I made a  
8 mistake in saying yes to your characterization of it as an  
9 aberration.

10 Q Now let's talk about this issue of drought. You're  
11 not able to quantify how much more water water users used  
12 during periods of drought, are you?

13 A Well, we, we have those records at least through  
14 September and I suppose we'll have them from Aloha soon for the  
15 whole year and we can make a pretty good estimate of it, yes.  
16 We've gone down to the actual usage even including 473 new ERCs  
17 for the year 2001 has gone down, has decreased, substantially  
18 decreased. I believe Mr. Porter estimated like  
19 1,220,000,000 gallons and the actual usage based on my  
20 projection is going to be less than a billion, 994 million.  
21 This is a huge difference in a normal year as opposed to a  
22 drought year.

23 Q But you aren't able to quantify, for instance, with,  
24 in terms of use of irrigation waters how much more people use  
25 during periods of drought as opposed to periods of nondrought.

1           A     Well, I just said we'll have those water records soon  
2 and we can make a pretty good estimate of it. Yes.

3           Q     Does that mean that you, as we sit here today you  
4 aren't able to quantify it?

5           A     Just based, based on the projections I've made I  
6 could. Based on the actual records I'll be able to.

7           Q     Well, let's take a look at page 45, line 13, of your  
8 deposition.

9           A     45/13?

10          Q     Yes, sir.

11          A     Okay.

12          Q     You answered the previous question, "The predominant  
13 one, I think, is the use of irrigation water in a drought  
14 period and more especially in new subdivisions with new lawns."

15          A     Yeah.

16          Q     Question, "Can you quantify that in any way; how much  
17 more water?"

18                    Answer, "No, I can't."

19          Q     Question, "How would it change the person's habits in  
20 terms of how often he would water the plants or the lawns?"

21                    Answer, "I don't have any quantities. I have never  
22 measured that."

23          A     And I haven't, and I haven't performed that  
24 computation. I --

25          Q     Do you stand by that testimony?

1 MR. BURGESS: Excuse me. I would like for counsel to  
2 allow Mr. Bidy to explain the answer.

3 COMMISSIONER JABER: Yes. Mr. Wharton, don't  
4 interrupt his answer, please.

5 THE WITNESS: I have not, I have not quantified that  
6 yet. I just testified that I could take the projections I made  
7 of total flow, compare them to the Year 2000, which was the  
8 driest year on record, and we could make a pretty good stab at  
9 it. I have not done that and that's what I testified to.

10 Now I suggest we wait until we can get Mr. Watford to  
11 pull the, the records of the full flows for the full year,  
12 which he should have, and let's make a computation of it.

13 BY MR. WHARTON:

14 Q But you agree as we sit here today you don't have any  
15 quantities and you've never measured that?

16 A That's correct.

17 Q Okay. Now do you agree that the Water Management  
18 District's restrictions -- well, strike that.

19 You do agree, don't you, that the Water Management  
20 District's restrictions in Aloha's service area have not been  
21 rescinded?

22 A Have not been rescinded? That's correct.

23 Q And you would anticipate that once the Water  
24 Management District considers the drought to be over, the  
25 restrictions will be lifted?

1           A     Yes.  When the, when all factors of the drought  
2 index, which includes not only rainfall but moisture content  
3 and other items such as stream flow, aquifer levels, when all  
4 that is normal.  And they're all coming up.  They're not down  
5 where they were but they're not quite back to where the  
6 district would like to see them.  When that happens, they will  
7 take the restrictions off.

8           Q     You would agree that if restrictions go from one day  
9 a week to two days a week, you would expect irrigation to go  
10 up?

11          A     Not necessarily, but perhaps.  I think people that  
12 just get, irrigate one day a week just heavily irrigate.  We'll  
13 have to see.

14                 We know that there's a tremendous difference between  
15 the Year 2001 with normal rainfall and the Year 2000 with a  
16 drought condition.  So that's all we can say at this point in  
17 time.

18          Q     Let's take a look at your deposition, page 50, line  
19 17.

20                 Question, "If the restrictions go from one day a week  
21 to two days a week, would you expect irrigation use to go up?"

22                 Answer, "Yes."

23                 Do you stand by that answer?

24          A     Probably would to some extent, but I'd like to test  
25 that versus what happened in the Year 2000.

1 (Pause.)

2 Q Mr. Bidy, are you aware of the fact that the  
3 Thousand Oaks neighborhood in Aloha's service area has water  
4 use of about 16,000 gallons per month despite the fact that  
5 that neighborhood has residential reuse?

6 A I'd have to check that, but I, subject to check, I  
7 agree.

8 Q And you would agree that at least one reason for that  
9 particular fact would be that that's one of Aloha's more  
10 affluent neighborhoods?

11 A That's one factor, yes.

12 Q Now you, you're not able to quantify in any way,  
13 shape or form in what way you believe restrictions have  
14 affected watering for new homes; correct?

15 A Not at this time until I get the full records for the  
16 full year's flow. I'll be able to make a stab at it later.

17 Q Let's talk about the calculations you made based on  
18 the partial year records that you had.

19 A All right.

20 Q You agree that numbers for water usage vary from  
21 month to month?

22 A Yes.

23 Q And you agree that in terms of projecting water usage  
24 on a going-forward basis that a nine-month sample is a very  
25 small sample?

1 A For a year? No, not necessarily.

2 Q No? That a nine-month sample is a very small sample  
3 to use to project water usage.

4 A When I first did it, it was six months' of records  
5 and then confirmed it by the nine-month records for the Year  
6 2001. And I'm, I'm assuming, and we'll see, the 12-month  
7 records verify that.

8 Q Well, that's, it's interesting, Mr. Bidy. But would  
9 you agree with my statement that in terms of projecting water  
10 usage on a going forward basis a nine-month sample is a very  
11 small sample?

12 A If I were doing that exercise, yes. But as you  
13 remember, I did an estimate of the test year which was 2001 and  
14 I think a very accurate, excuse me, projection of what actually  
15 happened. I told you --

16 Q Now there are a lot of variables that go into water  
17 usage for a particular month, aren't there?

18 A Oh, sure.

19 Q Such as the weather?

20 A Weather is one primary one.

21 Q The day of the month that the meters are read?

22 A Of course.

23 Q Things like special events that would bring larger  
24 groups of people into the service area?

25 A That's a factor. Sure.

1 Q And you would expect the availability of residential  
2 reuse to suppress water usage, wouldn't you?

3 A If everybody is hooked to it, perhaps so as far as  
4 irrigation water. Sure.

5 Q Now you had talked about that Aloha had not purchased  
6 as much water from the county as they indicated they would,  
7 correct, in your testimony?

8 A That is absolutely correct.

9 Q Don't you agree that Aloha is not going to purchase  
10 as much water from the county as they've indicated they will  
11 until they get this rate increase and that's why the figures  
12 were low for the year you looked at?

13 A Well, I don't know why they, they indicated that they  
14 were going to then.

15 Q But you would agree that's probably the explanation  
16 for why they didn't?

17 A That's what they've testified to.

18 Q Let's talk about unaccounted for water, Mr. Bidy.

19 You've indicated that your review reveals that  
20 Aloha's unaccounted for water is in excess of ten percent.

21 A Yes, it is. Based on the records for the Year 2001  
22 through June I first computed 17 point something percent. Then  
23 when I got the September records it dropped to 14.1 percent, I  
24 believe it was. So there's about four percent that's in excess  
25 of the ten percent that is normally allowed for flushing and

1 plant losses and et cetera.

2 Q Now your 14 percent water included -- your 14 percent  
3 unaccounted for water included water that was used by the  
4 utility in treatment loss and flushing; right?

5 A That's correct.

6 Q Well, since your deposition have you learned whether  
7 the PSC, whether when the PSC reviews the utility it allows ten  
8 percent after flushing?

9 A No, I haven't looked.

10 Q All right.

11 CHAIRMAN JABER: Mr. Wharton, just give me an idea of  
12 how much more cross you have.

13 MR. WHARTON: Moments.

14 COMMISSIONER JABER: Good.

15 (Pause.)

16 BY MR. WHARTON:

17 Q Mr. Bidy, are you aware of the fact that Pasco  
18 County is about to start a second pilot study using MIEX, using  
19 their chlorinated water?

20 A Chloramine treated water?

21 Q Yes, sir.

22 A No, I'm not, but I'm glad to hear that.

23 Q I want you to make the assumption that they are going  
24 to do that.

25 A All right.



1 Q Now isn't the reason they would be doing that because  
2 they want to see the effect of the changing water chemistry  
3 they will experience when they receive water treated with  
4 chloramine from Tampa Bay Water?

5 A Yes.

6 Q Should Aloha exercise the same caution that Pasco  
7 County has shown by waiting to evaluate the new water  
8 chemistry?

9 A I've already answered that several times, and I say  
10 yes for the overall system, perhaps not for the, if you were to  
11 design an isolated system.

12 MR. WHARTON: That's all we have.

13 COMMISSIONER JABER: Thank you, Mr. Wharton.

14 Mr. Burgess -- Commissioners, do you have questions?

15 COMMISSIONER PALECKI: Yes, I have a few questions.

16 I'd like to follow-up on that last question regarding  
17 the isolated Wells 8 and 9 and treating them with MIEX.

18 THE WITNESS: Yes, sir.

19 COMMISSIONER PALECKI: Let me ask you, if we went  
20 ahead and let's assume that we're treating Wells 8 and 9 with  
21 MIEX and it's working really well.

22 THE WITNESS: Uh-huh.

23 COMMISSIONER PALECKI: Do we have a compatibility  
24 problem if we go ahead and mix that water in the existing  
25 looped system that, that Aloha has?

1 THE WITNESS: Yes, we would, if we did it in the  
2 whole looped system. But we'd have to alter the looped system  
3 to isolate just that southern portion of the area that's served  
4 by, primarily by 8 and 9. Otherwise, we would have the  
5 compatibility problem.

6 COMMISSIONER PALECKI: And would that be something  
7 that would be difficult or expensive to accomplish?

8 THE WITNESS: Well, I think not. And I'd like to see  
9 a study made on it.

10 The southern part of the system -- this is a map of  
11 the area. The southern part of the system where all the black  
12 water problems are is down on the southern part and Wells 8 and  
13 9 are there. We'd have to physically disconnect the loop that  
14 goes on out to Wells 6 and 1, in those areas and so on, and  
15 simply serve this area with, with Wells 8 and 9 with a  
16 MIEX-treated system. And I'd love to see some study done on  
17 that. I believe it would show that it would be technically and  
18 financially feasible, but it just hasn't been done.

19 COMMISSIONER PALECKI: And I want to ask you about  
20 one other area that's been troubling me.

21 You have testified that when you conducted your test  
22 of the Aloha wells or the tests you had conducted, you believed  
23 that the wells were doctored or spiked with chlorine.

24 THE WITNESS: Absolutely. And that's what I  
25 testified to in the quality case.

1 COMMISSIONER PALECKI: Now we heard that these wells  
2 are anywhere between 500 to 1,000 gallon per minute wells.

3 THE WITNESS: That's correct.

4 COMMISSIONER PALECKI: How could they be spiked with  
5 chlorine if the flow is that great?

6 THE WITNESS: They have a test access pipe on the  
7 side of the well. They could very easily have poured liquid  
8 chlorine down those test pipes. I believe that was what was  
9 done. I believe that Aloha intentionally doctored, and that's  
10 what I, this is not new news, I testified to this at the prior  
11 hearing, so that we wouldn't know. How else could there be no  
12 sulfides at all and the lab tell me that there was a very  
13 strong chlorine odor in the raw water?

14 COMMISSIONER PALECKI: Now let me ask you a question.  
15 Have you heard the testimony of the DEP person who, who does  
16 the testing of Aloha's water?

17 THE WITNESS: Yes, sir, I did.

18 COMMISSIONER PALECKI: Were -- I guess the question I  
19 have is could he have been tricked in the same manner that you  
20 believe you were?

21 THE WITNESS: Well, he goes, they take him, he goes  
22 with them. He says he's always found a residual amount in the  
23 remote part of the system. And the reason for that, I believe,  
24 is that this is a spasmodic occurrence, it's not a regular  
25 occurrence, where the inordinate concentrated hydrogen sulfide

1 slugs come through the system, and the meter on the chlorine is  
2 set for the ordinary concentration. I believe he hasn't been  
3 there at that time.

4 Now I've been told that when people complain about  
5 the black water that Aloha sends a technician out there, takes  
6 a sample, puts it in a reagent that will turn pink when  
7 chlorine is indicated, and they will go to the curb and pull a  
8 sample and tell the owners, look a there, you've got chlorine;  
9 therefore, you can't have hydrogen sulfide at this point.

10 I've also been told there's been instances where  
11 there was no pink and that the technician just had to get in  
12 the truck and drive away. Now that's all anecdotal and hearsay  
13 just from talking to these various customers.

14 COMMISSIONER PALECKI: But if you have the black  
15 water, if you have the water reacting in this manner with the  
16 copper pipe, your testimony is there has to be hydrogen  
17 chloride?

18 THE WITNESS: Not hydrogen chloride. Hydrogen  
19 sulfide.

20 COMMISSIONER PALECKI: Hydrogen, excuse me, sulfide.

21 THE WITNESS: Either piped directly in or some  
22 manufactured by this sulphur-reducing bacteria inside the  
23 house. You know, there's some probably that is getting  
24 manufactured in the house with that, in the hot water heaters.  
25 But the problem is so invasive and so massive in some of these

1 areas and it's going to take huge amounts of hydrogen sulfide.  
2 You saw those black-lined copper tubes and the people have all  
3 the pinhole leaks and so on; it takes a lot of hydrogen sulfide  
4 to do that.

5 COMMISSIONER PALECKI: But you believe it's sporadic,  
6 it's something that is just happening on occasion, is that your  
7 belief?

8 THE WITNESS: Yes, sir, I do. Because Wells 8 and 9  
9 being new wells put in five or six years ago, and many of the  
10 customers told me that that's when the black water problem  
11 started, that they have a varying concentrate of the hydrogen  
12 sulfide that they can't manage with a simple chlorinator that's  
13 set at one reading.

14 COMMISSIONER PALECKI: It sounds to me as if  
15 isolating Wells 8 and 9 might be expensive and difficult.  
16 Wouldn't it be more feasible to figure out a way to treat Wells  
17 8 and 9 with the MIEX system and then figure out a way to make  
18 that water compatible with the rest of the water in the Aloha  
19 system?

20 THE WITNESS: That's, that's another alternative,  
21 yes, sir.

22 COMMISSIONER PALECKI: But, I mean, it would --

23 THE WITNESS: I would like to see both alternatives  
24 looked at. You'd have to change from regular chlorination at  
25 all your wells to a chloramine system, number one. And that's

1 essentially it, I think. Mr. Porter probably knows a little  
2 more about this than I do and he'll be testifying tomorrow and  
3 you can ask him. I think that's the only other change you'd  
4 have to make. But I'd like to see both alternatives looked at.  
5 But the point I was making is that they hadn't done any of  
6 that. It stopped as of July until now.

7 COMMISSIONER PALECKI: Thank you.

8 COMMISSIONER JABER: Mr. Burgess?

9 MR. BURGESS: Yes, I, I have some redirect and I hope  
10 it won't take long.

11 REDIRECT EXAMINATION

12 BY MR. BURGESS:

13 Q You were asked, Mr. Bidy, a myriad of questions  
14 about things that might make usage go down or go up. One of  
15 the things, more recent things you were asked by counsel was if  
16 usage would go down because of the availability of residential  
17 reuse. Do you recall that question?

18 A Yes, I do.

19 Q If it did, would you expect it to go back up later  
20 for any reason if the residential reuse continues to be made  
21 available?

22 A No.

23 Q So whatever factor it has, would, would you expect it  
24 to be continuing?

25 A Yes, I would.

1 Q You were asked about the demographics, a number of  
2 questions about demographics and new connections.

3 If you were to try to isolate the new connections  
4 and, with those demographics and determine the effect that they  
5 would have on future usage, would you do it in a fashion that  
6 would assume that everybody would connect on January 1st of the  
7 new year?

8 A No. No, I would not.

9 MR. BURGESS: Thank you. That's all I have.

10 COMMISSIONER JABER: Thank you. Thank you,  
11 Mr. Biddy.

12 (Witness excused.)

13 CHAIRMAN JABER: We have Exhibit 10, which is  
14 admitted into the record without objection.

15 (Exhibit 10 admitted into the record.)

16 CHAIRMAN JABER: And, Mr. Burgess, you can call your  
17 next witness.

18 (Transcript continues in sequence with Volume 7.)

19 - - - - -  
20  
21  
22  
23  
24  
25

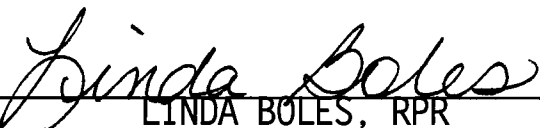
1 STATE OF FLORIDA )  
2 : CERTIFICATE OF REPORTER  
3 COUNTY OF LEON )  
4

5 I, LINDA BOLES, RPR, Official Commission  
6 Reporter, do hereby certify that the foregoing proceeding was  
7 heard at the time and place herein stated.

8 IT IS FURTHER CERTIFIED that I stenographically  
9 reported the said proceedings; that the same has been  
10 transcribed under my direct supervision; and that this  
11 transcript, constitutes a true transcription of my notes of  
12 said proceedings.

13 I FURTHER CERTIFY that I am not a relative, employee,  
14 attorney or counsel of any of the parties, nor am I a relative  
15 or employee of any of the parties' attorneys or counsel  
16 connected with the action, nor am I financially interested in  
17 the action.

18 DATED THIS 24th DAY OF JANUARY, 2002.

19  
20  
21  
22  
23  
24  
25  
  
LINDA BOLES, RPR  
FPSC Official Commissioner Reporter  
(850) 413-6734