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DOCKET NO.: 950495-WS - [Southern States Utilities, Inc. - Gospel Island Estates Water System, Oak Forest Water System, Point O'Woods Water System, Rolling Green/Rosemont Water System]

WITNESS: Direct Testimony of William V. Ryland, Florida Department of Environmental Protection, Appearing on Behalf of the Staff of the Florida Public Service Commission

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FPSC-RECORDS/REPORTING

DIRECT TESTIMONY OF WILLIAM V. RYLAND

1
2 Q. Please state your name and business address.

3 A. William V. Ryland, State of Florida, Department of Environmental
4 Protection, 3804 Coconut Palm Drive, Tampa, Florida 33619.

5 Q. Please state a brief description of your educational background and
6 experience.

7 A. I have a B.S. degree in biology, magna cum laude, and one year of
8 graduate school in biology. I have worked for the state of Florida for eight
9 years as an Environmental Specialist I. Six of the eight years, I was
10 employed by Hillsborough and Pinellas County Health Departments. The last two
11 years I have been with the Florida Department of Environmental Protection
12 (FDEP).

13 Q. By whom are you presently employed?

14 A. I am employed by the FDEP.

15 Q. How long have you been employed with the FDEP and in what capacity?

16 A. I have been employed at FDEP for two years as an Environmental
17 Specialist I. I worked in a similar capacity at the Hillsborough and Pinellas
18 County health units for six years.

19 Q. What are your general responsibilities at the FDEP?

20 A. I work as an Environmental Specialist I in the compliance/enforcement
21 section. I conduct sanitary surveys and compliance inspections on drinking
22 water systems. I review chemical and bacteriological reports and ensure
23 systems are current on monitoring. I prepare enforcement documents for
24 systems that are out of compliance and follow through the enforcement
25 procedure.

1 Q. Are you familiar with the Southern States Utilities, Inc. water
2 systems located in the Southwest District?

3 A. Yes.

4 Q. Were these systems inspected by you, or by FDEP staff under your
5 supervision?

6 A. Yes.

7 Gospel Island Estates Water System

8 Q. Does the utility have a current construction permit from the FDEP for
9 Gospel Island Estates Water System (Gospel Island Estates)?

10 A. No.

11 Q. Are the utility's treatment facilities and distribution system
12 sufficient to serve its present customers?

13 A. The Department cannot answer this question with reasonable assurance in
14 regards to the current plant capacity and treatment facility adequacy, since
15 there has not been a construction permit application submitted within the last
16 five years.

17 Q. Does the utility maintain the required 20 psi minimum pressure
18 throughout the distribution system?

19 A. Yes. The Department noted pressure of 45/65 (psi) on March 13, 1995,
20 during a survey.

21 Q. Does the utility have an adequate auxiliary power source in the event
22 of a power outage?

23 A. This requirement is not applicable, as the system's small population is
24 below that required for auxiliary power.

25 Q. Are the utility's water wells for Gospel Island Estates located in

1 | compliance with Rule 62-555, Florida Administrative Code?
2 | A. Yes.
3 | Q. Does the utility have certified operators as required by Rule 61E12-41,
4 | Florida Administrative Code?
5 | A. Yes.
6 | Q. Has the utility established a cross-connection control program in
7 | accordance with Rule 62-555.360, Florida Administrative Code?
8 | A. Yes. The system has the standard SSU plan dated August, 1992 on file.
9 | The Department encourages specific current plans be done on each system.
10 | Q. Is the overall maintenance of the treatment plant and distribution
11 | facilities satisfactory?
12 | A. Yes.
13 | Q. Does the water produced by the utility meet the State and Federal
14 | maximum contaminant levels for primary and secondary water quality standards?
15 | A. Yes.
16 | Q. Does the utility monitor the organic contaminants listed in Rule
17 | 62-550.410, Florida Administrative Code?
18 | A. Yes. However, a waiver was issued on March 18, 1994, for unregulated
19 | sampling due to the small size of system.
20 | Q. Do recent chemical analyses of raw and finished water, when compared to
21 | regulations, suggest the need for additional treatment?
22 | A. No.
23 | Q. Does the utility maintain the required chlorine residual or its
24 | equivalent throughout the distribution system?
25 | A. Yes. As noted in the facility's monthly operating reports and confirmed

1 | on March 13, 1995 during a survey.

2 | Q. Are the plant and distribution systems in compliance with all the other
3 | provisions of Chapter 62, Florida Administrative Code, not previously
4 | mentioned?

5 | A. Yes.

6 | Q. Has Gospel Island Estates been the subject of any FDEP enforcement
7 | action within the past two years?

8 | A. No.

9 | Q. Do you have any further information to add regarding the Gospel Island
10 | Estates System?

11 | A. As noted on the survey of March 13, 1995, the high water table has
12 | expanded a pond to within 100 feet of the well. This has been worsened by
13 | recent rains. In the future, the well's raw water may have to be examined for
14 | the possibility of being under the direct influence of surface water. If this
15 | were confirmed, future regulations would require much more testing and the
16 | possible addition of filtration or other treatment.

17 | Oak Forest Water System

18 | Q. Does the utility have a current construction permit from the FDEP for
19 | Oak Forest Water System (Oak Forest)?

20 | A. No.

21 | Q. Are the utility's treatment facilities and distribution system
22 | sufficient to serve its present customers?

23 | A. Yes.

24 | Q. Does the utility maintain the required 20 psi minimum pressure
25 | throughout the distribution system?

1 | A. Yes. There have been no complaints of low pressure. The pressure noted
2 | on the survey done August 17, 1995, was 60/80 psi.

3 | Q. Does the utility have an adequate auxiliary power source in the event
4 | of a power outage?

5 | A. Yes. As noted during the August 17, 1995, survey.

6 | Q. Are the utility's water wells for Oak Forest located in compliance with
7 | Rule 62-555, Florida Administrative Code?

8 | A. Yes.

9 | Q. Does the utility have certified operators as required by Rule 61E12-41,
10 | Florida Administrative Code?

11 | A. Yes.

12 | Q. Has the utility established a cross-connection control program in
13 | accordance with Rule 62-555.360, Florida Administrative Code?

14 | A. Yes. Oak Forest has a standard SSU plan dated August, 1992 on file.
15 | The Department encourages specific current plans be done on each system.

16 | Q. Is the overall maintenance of the treatment plant and distribution
17 | facilities satisfactory?

18 | A. Yes.

19 | Q. Does the water produced by the utility meet the State and Federal
20 | maximum contaminant levels for primary and secondary water quality standards?

21 | A. Yes.

22 | Q. Does the utility monitor the organic contaminants listed in Rule
23 | 62-550.410, Florida Administrative Code?

24 | A. Yes.

25 | Q. Do recent chemical analyses of raw and finished water, when compared to

1 regulations, suggest the need for additional treatment?

2 A. No.

3 Q. Does the utility maintain the required chlorine residual or its
4 equivalent throughout the distribution system?

5 A. Yes. As noted during the survey on August 17, 1995 and in the
6 facility's monthly operating reports.

7 Q. Are the plant and distribution systems in compliance with all the other
8 provisions of Chapter 62, Florida Administrative Code, not previously
9 mentioned?

10 A. Yes.

11 Q. Has Oak Forest been the subject of any FDEP enforcement action within
12 the past two years?

13 A. No.

14 Point O'Woods Water System

15 Q. Does the utility have a current construction permit from the FDEP for
16 Point O'Woods Water System (Point O'Woods)?

17 A. No.

18 Q. Are the utility's treatment facilities and distribution system
19 sufficient to serve its present customers?

20 A. Yes.

21 Q. Does the utility maintain the required 20 psi minimum pressure
22 throughout the distribution system?

23 A. Yes. At the date of the survey, March 13, 1995, the pressure was 48/68
24 psi.

25 Q. Does the utility have an adequate auxiliary power source in the event

1 | of a power outage?

2 | A. Yes.

3 | Q. Are the utility's water wells for Point O'Woods located in compliance
4 | with Rule 62-555, Florida Administrative Code?

5 | A. Yes, except for Well #4 as explained on page 8, line 21 of my testimony.

6 | Q. Does the utility have certified operators as required by Rule 61E12-41,
7 | Florida Administrative Code?

8 | A. Yes.

9 | Q. Has the utility established a cross-connection control program in
10 | accordance with Rule 62-555.360, Florida Administrative Code?

11 | A. Yes. The system has the standard SSU plan dated August, 1992 on file.
12 | The Department encourages specific current plans be done on each system.

13 | Q. Is the overall maintenance of the treatment plant and distribution
14 | facilities satisfactory?

15 | A. Yes.

16 | Q. Does the water produced by the utility meet the State and Federal
17 | maximum contaminant levels for primary and secondary water quality standards?

18 | A. No. The system has exceeded the 90% copper level, and has exceeded
19 | copper levels in the lead/copper rule. A corrosion control permit has been
20 | issued for treatment. The facility is presently feeding aquadene. However,
21 | the results of testing since addition of aquadene have just come in. The
22 | copper levels are lower but are still exceeding the MCL. The system may have
23 | to adjust levels of treatment. According to current water quality parameters,
24 | further testing will be required in this area.

25 | Q. Does the utility monitor the organic contaminants listed in Rule

1 | 62-550.410, Florida Administrative Code?

2 | A. Yes.

3 | Q. Do recent chemical analyses of raw and finished water, when compared to
4 | regulations, suggest the need for additional treatment?

5 | A. No. This system has exceeded copper levels in the lead/copper rule, as
6 | already explained.

7 | Q. Does the utility maintain the required chlorine residual or its
8 | equivalent throughout the distribution system?

9 | A. Yes. As noted on monthly operating reports and by inspection on March
10 | 13, 1995.

11 | Q. Are the plant and distribution systems in compliance with all the other
12 | provisions of Chapter 62, Florida Administrative Code, not previously
13 | mentioned?

14 | A. Yes.

15 | Q. Has Point O'Woods been the subject of any FDEP enforcement action within
16 | the past two years?

17 | A. No. The last case was closed June 29, 1993.

18 | Q. Do you have anything further to add?

19 | A. Yes. SSU is in the process of reactivating Well #4. The
20 | bacteriologicals have cleared and chemicals are now in the lab. We have not
21 | received the results yet. This well previously had raw water turbidity
22 | problems. This well is required as a back-up well. Previous chemical testing
23 | (1993) on this well was satisfactory except for turbidity. Lightning caused
24 | damage to the pump on Well #5 and we gave emergency temporary permission to
25 | use Well #4 until pump on #5 is repaired. In the past (1992) the geology of

1 | the area when drilling wells caused some collapsing of old wells. Close
2 | monitoring of this area may be needed.

3 | Rolling Green/Rosemont Water System

4 | Q. Does the utility have a current construction permit from the FDEP for
5 | Rolling Green/Rosemont Water System (Rolling Green/Rosemont)?

6 | A. No.

7 | Q. Are the utility's treatment facilities and distribution system
8 | sufficient to serve its present customers?

9 | A. The Department cannot answer this question with reasonable assurance in
10 | regards to the current plant capacity and treatment facility adequacy, since
11 | there has not been a construction permit application submitted within the last
12 | five years.

13 | Q. Does the utility maintain the required 20 psi minimum pressure
14 | throughout the distribution system?

15 | A. Yes. The pressure was 45/65 psi at time of the survey on March 13,
16 | 1995.

17 | Q. Does the utility have an adequate auxiliary power source in the event
18 | of a power outage?

19 | A. Yes.

20 | Q. Are the utility's water wells for Rolling Green/Rosemont located in
21 | compliance with Rule 62-555, Florida Administrative Code?

22 | A. Yes.

23 | Q. Does the utility have certified operators as required by Rule 61E12-41,
24 | Florida Administrative Code?

25 | A. Yes.

1 Q. Has the utility established a cross-connection control program in
2 accordance with Rule 62-555.360, Florida Administrative Code?

3 A. Yes. The system has a standard SSU plan dated August, 1992 on file.
4 The Department encourages specific current plans be done on each system.

5 Q. Is the overall maintenance of the treatment plant and distribution
6 facilities satisfactory?

7 A. Yes.

8 Q. Does the water produced by the utility meet the State and Federal
9 maximum contaminant levels for primary and secondary water quality standards?

10 A. No. This system exceeded the 0.3 ppm MCL for iron with a test result
11 of 0.43 ppm. A recheck showed 0.348 ppm iron. The system is already using
12 AugaMag, a sequestering agent, for iron control. It is recommended SSU
13 consider treatment for iron removal, which will require a permit application
14 and approval by the FDEP.

15 Q. Does the utility monitor the organic contaminants listed in Rule
16 62-550.410, Florida Administrative Code?

17 A. Yes.

18 Q. Do recent chemical analyses of raw and finished water, when compared to
19 regulations, suggest the need for additional treatment?

20 A. Possibly. Future treatment will be needed for iron if adjustment of the
21 AquaMag is not sufficient.

22 Q. Does the utility maintain the required chlorine residual or its
23 equivalent throughout the distribution system?

24 A. Yes. As noted, on the monthly operating reports and by inspection on
25 March 13, 1995.

1 Q. Are the plant and distribution systems in compliance with all the other
2 provisions of Chapter 62, Florida Administrative Code, not previously
3 mentioned?

4 A. Yes.

5 Q. Has Rolling Green/Rosemont been the subject of any FDEP enforcement
6 action within the past two years?

7 A. No.

8 Q. Do you have anything further to add?

9 A. Yes. The back-up well is currently being sampled for required chemical
10 monitoring. The results are not in yet. The system is almost at the
11 population which requires the second well. The system population is 343 with
12 98 connections. At 350 population or 150 connections, the second well is
13 required. If chemical results are satisfactory on the well, there should be
14 no problem. If they are not, treatment may be required.

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