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**ORIGINAL
FILE COPY**

DIRECT TESTIMONY OF BERT T. PHILLIPS
BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION
on behalf of
SOUTHERN STATES UTILITIES, INC.
AND DELTONA UTILITIES, INC.
DOCKET NO. 920199-WS

1 Q. PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.

2 A. My name is Bert T. Phillips and my business
3 address is 1000 Color Place, Apopka, Florida
4 32703.

5 Q. WHAT IS YOUR POSITION WITH SOUTHERN STATES
6 UTILITIES, INC. AND DELTONA UTILITIES, INC.?

7 A. I am Chairman and President of Southern States
8 Utilities, Inc. and Deltona Utilities, Inc.
9 These companies were legally merged on July 15,
10 1992. Therefore, hereinafter I will refer to
11 them collectively as "Southern States". I also
12 serve as Chairman and President of Lehigh
13 Utilities, Inc. ("Lehigh").

14 Q. PLEASE DESCRIBE YOUR EDUCATIONAL BACKGROUND?

15 A. I hold a Bachelor of Science degree in marine
16 engineering from the United States Merchant
17 Marine Academy and a Masters in Business
18 Administration from the University of Idaho. I
19 also have attended numerous schools, seminars,
20 conferences, workshops and short courses on
21 utility management and engineering over the past
22 30 years which were sponsored by various
23 professional associations, universities and
24 engineering firms.

25 Q. PLEASE DESCRIBE YOUR EXPERIENCE IN THE UTILITY

1 A. I am a director of both the National Association
2 of Water Companies ("NAWC") and the Florida Water
3 Works Association as well as a member of the
4 American Water Works Association ("AWWA"). Both
5 the NAWC and AWWA concentrate on issues of public
6 interest which impact investor-owned utilities
7 and their customers. For instance, the cost of
8 complying with federal and state regulatory
9 requirements are passed through to our customers.
10 The NAWC and AWWA participate actively in state
11 regulatory arenas to provide regulators with
12 customer rate-impact and environmental impact
13 information. Through this participation,
14 regulations may be moderated so as to reflect
15 more reasonable risk and economic impact
16 assessments. These organizations also provide a
17 valuable resource for information sharing in
18 areas such as new technology, new system designs,
19 new solutions to water quality problems, water
20 conservation, etc. The NAWC, like Southern
21 States, has an unwavering and uncompromising
22 commitment to participate in any and all matters
23 that pose a threat to the safety and quality of
24 drinking water. Through our participation in
25 these organizations, Southern States and our

1 customers have an additional voice in federal and
2 state affairs affecting our customers.

3 **Q. HAVE YOU EVER TESTIFIED BEFORE THE FLORIDA PUBLIC**
4 **SERVICE COMMISSION?**

5 A. Yes. I testified before the Florida Public
6 Service Commission in 1990 in support of the
7 request for a rate increase of Southern States
8 and United Florida Utilities Corporation in
9 Docket No. 900329-WS. As the Commission is
10 aware, United Florida Utilities Corporation was
11 merged into Southern States Utilities, Inc. on
12 April 1, 1992. I also have submitted pre-filed
13 direct testimony on behalf of Lehigh in Docket
14 No. 911188-WS.

15 **Q. PLEASE DESCRIBE YOUR RESPONSIBILITIES AS CHAIRMAN**
16 **AND PRESIDENT OF SOUTHERN STATES.**

17 A. I oversee the management of all aspects of
18 Southern States' business operations including
19 the utility operations, finance, engineering,
20 administration, legal, ratemaking and customer
21 service areas. I also am responsible for
22 Southern States' long range strategic planning.

23 **Q. PLEASE DESCRIBE SOUTHERN STATES' FILING IN THIS**
24 **CASE.**

25 A. On May 11 and June 17, 1992, Southern States

1 filed tariff changes for rate relief designed to
2 increase annual water and wastewater revenues in
3 the amount of \$5,064,353 and \$3,601,165,
4 respectively (a total of \$8,665,518). The filing
5 was prepared in accordance with the Commission's
6 minimum filing requirements and other applicable
7 rules. The filing is based on an historic test
8 year consisting of the twelve months ended
9 December 31, 1991. This test year coincides with
10 Southern States' 1991 fiscal year.

11 **Q. WHEN DID SOUTHERN STATES' SYSTEMS LAST OBTAIN**
12 **RATE RELIEF?**

13 **A.** Volume I, Book 1, pages 4 through 6 of the MFRs
14 identifies the docket number and date of the last
15 Commission rate order for each water and
16 wastewater system included in this docket. A
17 review of these pages reveals that it has been
18 as much as 22 years since Southern States has had
19 rate relief (exclusive of indexing and/or
20 pass-throughs) on certain systems. Southern
21 States' last general rate filing for 32 of the
22 systems included in this proceeding was rejected
23 by the Commission in Order No. 24715 in Docket
24 No. 900329-WS. On January 6, 1992, Southern
25 States appealed the Commission's decision to the

1 First District Court of Appeals. The appeal was
2 denied by the First District Court of Appeals on
3 July 16, 1992. Southern States is contemplating
4 an appeal to the Florida Supreme Court at the
5 time of submission of this pre-filed testimony.
6 On June 25, 1992, Southern States filed a test
7 year letter concerning our Marco Island water and
8 wastewater systems, thus initiating the rate case
9 process for the two systems which had been
10 included in Docket No. 900329-WS but which are
11 not included in this proceeding. The test year
12 request was approved by the Commission by letter
13 dated July 7, 1992 and Docket No. 920655-WS has
14 been assigned to that proceeding.

15 Q. WHAT ARE THE CAUSES FOR SOUTHERN STATES' RATE
16 FILING?

17 A. As I just indicated, it has been as much as 22
18 years since Southern States has obtained rate
19 relief for certain systems. Therefore, by the
20 estimated effective date of new rates in this
21 proceeding, some existing rates will have been
22 in effect for approximately 23 years.

23 Such rates are inadequate as a result of new and
24 amended regulatory requirements and ongoing
25 increases in the costs incurred to provide

1 continued safe, efficient and sufficient service
2 to our customers. Despite recent aggressive
3 efforts to achieve new economies in the rendition
4 of service, Southern States' current rates are
5 not adequate to permit recovery of our costs,
6 never mind any return on the rate base of
7 approximately \$57 million for the 127 systems
8 included in this filing.

9 Q. IS IT TRUE THAT SOUTHERN STATES HAS MADE MORE
10 THAN \$50 MILLION (NET OF CIAC) IN CAPITAL
11 INVESTMENTS IN UTILITY ASSETS SINCE THE LAST RATE
12 ORDERS FOR THE SYSTEMS INCLUDED IN THIS FILING?

13 A. Yes. Southern States has invested a total of
14 approximately \$25 million in the water and \$25
15 million in the wastewater systems included in
16 this filing since rates were last established.

17 Q. I SHOW YOU EXHIBIT ____ (BTP-1) UNDER COVER PAGE
18 ENTITLED "MAJOR ADDITIONS PLACED IN SERVICE IN
19 1990 AND 1991." WAS THIS EXHIBIT PREPARED BY YOU
20 OR UNDER YOUR DIRECTION AND SUPERVISION?

21 A. Yes, it was.

22 Q. COULD YOU BRIEFLY DESCRIBE THIS EXHIBIT?

23 A. This exhibit identifies a number of the more
24 significant capital investment projects which
25 Southern States placed in service in 1990 and

1 1991 alone as well as the approximate cost of
2 such projects. Many of these improvements were
3 necessary to meet increasingly stringent
4 Environmental Protection Agency or Florida
5 Department of Environmental Regulation ("DER")
6 standards. Other capital improvement projects
7 were undertaken to ensure reliability of service,
8 to compensate for deteriorating water source
9 conditions or to achieve a common goal maintained
10 by the State of Florida and Southern States -- to
11 protect our environment so that generations to
12 come may enjoy its current treasures. For
13 instance, the costs identified in this exhibit
14 for Deltona wastewater system improvements
15 represent costs incurred to stop the discharge of
16 effluent into Lake Monroe, a practice carried out
17 by the former owner of Deltona Utilities, Inc.
18 which had generated a consent order from the DER.
19 In cooperation with the DER and the local water
20 management district, and in compliance with the
21 terms of the consent order, Southern States
22 successfully eliminated this discharge prior to
23 November 1, 1990. Effluent from the Deltona
24 wastewater system now meets DER public access
25 requirements and now is 100% reusable.

1 Q. WHAT WAS THE RATE OF RETURN EXPERIENCED BY
2 SOUTHERN STATES FOR THE FISCAL YEAR ENDED
3 DECEMBER 31, 1991?
4 A. The rates of return for the fiscal year ended
5 December 31, 1991 were 3.07% for the water system
6 and 1.74% for the wastewater system. This is
7 equivalent to a negative return on equity of -
8 7.07% and -10.18%, respectively. These returns
9 will not allow Southern States to remain viable
10 much less attract capital to finance capital
11 investments and operate the systems. We fear
12 that customers ultimately would bear the brunt of
13 these returns if the requested rate relief is not
14 granted to Southern States. For example, as the
15 Commission is aware, in December of 1984 the
16 financial situation of Deltona Utilities, Inc.
17 ("Deltona") was such that the only funding which
18 lenders would provide to enable Deltona to
19 finance construction and operate its facilities
20 came at a high price. The lenders secured
21 above-market interest rates from Deltona and
22 included other stringent terms in the bond
23 documents, all of which were favorable to the
24 lenders. As the Commission is aware, the courts
25 confirmed that utility customers must pay for

1 such interest and other debt related costs in
2 rates.

3 **Q. WHAT IS THE RETURN ON EQUITY REQUESTED BY**
4 **SOUTHERN STATES IN THIS PROCEEDING?**

5 A. The requested return on equity for water and
6 wastewater operations combined is 12.83%. Scott
7 Vierima will discuss how this return was
8 determined. Joseph P. Cresse and Helena Loucks
9 will discuss how we propose to recover this
10 return in customer rates.

11 **Q. PLEASE IDENTIFY THE OTHER WITNESSES WHO WILL**
12 **TESTIFY IN THIS PROCEEDING ON BEHALF OF SOUTHERN**
13 **STATES AND THE TOPICS THEY WILL ADDRESS.**

14 A. The following is a list of the witnesses who will
15 provide direct testimony in this proceeding. Of
16 course, additional witnesses may be required to
17 address issues not contemplated in our pre-filed
18 direct testimony which subsequently may be raised
19 by the Staff of the Public Service Commission
20 (Staff) or intervenors in this proceeding.

21	<u>Witness</u>	<u>Topics</u>
22	Arend J. Sandbulte	-Minnesota Power Overview and
23		Goals in Florida
24	Bert T. Phillips	-Overview of Filing
25	Forrest L. Ludsen	-Administrative and General

1		Expenses
2		-Application of the
3		Commission's O & M
4		Benchmark Guideline
5		-Impact of Commission's 1988
6		Management Audit Review
7		-Allocations of Common Costs
8	Charles K. Lewis	-Cost of Service
9	Scott W. Vierima	-Cost of Capital
10	Bruce E. Gangnon	-Taxes
11		-FASB 106: Post Retirement
12		Benefits
13	Charles L. Sweat	-Quality of Service
14		-Unaccounted For Water
15		-Impact of Commission's 1988
16		Management Audit on
17		Operations
18		-Customer Complaints received
19		by the Commission during the
20		Test Year
21	Gerald C. Hartman	-Used and Useful Utility
22		Property
23		-Margin Reserve
24		-Depreciation Life of R.O.
25		Permeators

1 Gary S. Morse -Used and Useful Utility
2 Property
3 -Margin Reserve
4 Joseph P. Cresse -Rate Design (Theory and
5 Justification)
6 Helena Loucks -Rate Design (Mechanics)

7 Q. PLEASE DESCRIBE THE SCOPE OF YOUR TESTIMONY IN
8 THIS PROCEEDING.

9 A. I will discuss the present management of Southern
10 States, describe Southern States' current
11 corporate goals and philosophy and provide a
12 brief overview of Southern States' filing in this
13 proceeding. I also will briefly describe certain
14 benefits which are offered to Southern States'
15 customers, including high quality water and
16 wastewater service consistent with regulatory
17 requirements at the lowest possible cost.
18 Southern States is a professional utility with
19 the personnel and resources which enable it to
20 provide such service. However, applicable
21 federal, state and local laws, rules, ordinances
22 and regulations have been and continue to be
23 expanded and revised considerably. These new and
24 revised laws, rules, etc., inevitably increase
25 Southern States' operations and maintenance

1 expenses and often the level of capital
2 investments which are required.

3 Q. COULD YOU BRIEFLY DESCRIBE THE CORPORATE GOALS
4 AND PHILOSOPHY OF SOUTHERN STATES' MANAGEMENT?

5 A. Southern States' management is dedicated to
6 ensuring that our customers receive the highest
7 quality service at the lowest possible cost,
8 while meeting or exceeding regulatory
9 requirements. As the Commission recently
10 reaffirmed in its order approving the transfer
11 of Lehigh to the Southern States family of water
12 and wastewater utilities, Southern States has the
13 expertise and financial ability to provide
14 quality service to our customers throughout the
15 State. Unfortunately, as demonstrated in Exhibit
16 ___ (BTP-1), we are in an era in which
17 significant capital investments are required and
18 cost increases are unavoidable for water and
19 wastewater utilities primarily due to increased
20 regulatory requirements. These investment
21 requirements and cost increases must inevitably
22 be reflected in higher rates.

23 Q. HAVE THERE BEEN ANY ACKNOWLEDGMENTS BY COMMISSION
24 PERSONNEL OF THE INEVITABILITY OF HIGHER RATES
25 DUE TO INCREASED REGULATION?

1 A. Yes, as Commissioner Betty Easley stated last
2 year in her presentation to the Southeast
3 Association of Regulatory Utility Commissioners:
4 "Florida really comprises four distinct unique
5 geographic and hydrologic makeup, and because of
6 the uniqueness we have seen the cost of water and
7 wastewater service for an average household reach
8 \$100 per month in some areas. Needless to say
9 this doesn't go over very well with people who
10 were used to paying nothing or \$10 per month back
11 home up north. And unfortunately, the water in
12 most parts of Florida where people want to live
13 isn't exactly Rocky Mountain quality."
14 Commissioner Easley continued to state that "a
15 major factor to be considered in approaching the
16 Financial Challenge of the water and wastewater
17 industry is to somehow gain customer acceptance
18 of the increased cost of service to meet state
19 and federal environmental requirements." We
20 agree with the Commissioner's statements and we
21 look forward to the participation of
22 representatives of the Commission and the Florida
23 Department of Environmental Regulation ("DER")
24 during customer meetings and at hearings in this
25 proceeding to perform the service Commissioner

1 Easley recommends:

2 . . . to help in explaining that major
3 capital expenditures are necessary to comply
4 with the health standards mandated by the
5 [Environmental Protection Agency] and the
6 Congress.

7 Q. COULD YOU BRIEFLY DESCRIBE THE NEW HEALTH
8 STANDARDS MANDATED BY THE ENVIRONMENTAL
9 PROTECTION AGENCY AND CONGRESS TO WHICH
10 COMMISSIONER EASLEY WAS REFERRING?

11 A. In 1986, Congress amended the Safe Drinking Water
12 Act to require the establishment of new drinking
13 water quality and treatment regulations. To
14 fulfill this requirement, the Environmental
15 Protection Agency ("EPA") developed new
16 regulations and "maximum contaminant levels" for
17 volatile organic chemicals, fluoride, surface
18 water treatment, total coliform bacteria,
19 radionuclides, additional synthetic organic and
20 inorganic chemicals, disinfectants and
21 disinfection by-products. The DER has
22 implemented and is aggressively enforcing new
23 regulations consistent with the federal laws and
24 EPA regulations. As I will discuss later in my
25 testimony, these new regulations not only have

1 significantly increased the capital requirements
2 and corresponding treatment costs of water
3 utilities but also have resulted in material
4 increases in the cost of testing for compliance
5 with maximum contaminant levels.

6 In addition, DER has enacted various new and
7 amended rules affecting the cost of Southern
8 States' wastewater operations, including new
9 sludge rules, rules regarding tertiary treatment
10 standards, etc. All of these statutory and rule
11 changes have increased Southern States' cost of
12 providing service to our customers.

13 Q. CAN YOU OFFER ANY SUBSTANTIATION THAT THE LAWS
14 AND REGULATIONS YOU HAVE REFERRED TO ARE HAVING
15 THE ECONOMIC CONSEQUENCES YOU HAVE PORTRAYED?

16 A. Certainly. A review of any number of periodicals
17 and trade journals will confirm that the Safe
18 Drinking Water Act and regulations enacted by the
19 states to enforce it are increasing the cost of
20 providing water and wastewater service throughout
21 the country. For instance, in the June 15, 1992
22 issue of Standard & Poor's Creditweek, it is
23 noted that:

24 S&P has revised its public financial
25 benchmarks for investor-owned water

1 utilities. The more stringent standards
2 were implemented as a result of S&P's
3 conclusion that credit risk has escalated
4 in the water utility industry in recent
5 years due to significant challenges related
6 to developing future water supplies and
7 assuring the quality of existing supplies ,
8 . . . Another major challenge for many water
9 utilities is the ongoing implementation of
10 the 1986 amendment to the Safe Drinking
11 Water Act (SDWA) of 1974. The SDWA
12 amendments are imposing more stringent water
13 quality standards relating to specific
14 levels of substances found in both surface
15 and groundwater supplies. Higher water
16 quality standards are contributing to
17 significant financing and regulatory
18 pressures for the industry.
19 Ongoing evolution of the Act is expected as
20 the Environmental Protection Agency (EPA)
21 continues to review contaminants that may
22 have an adverse impact on public health.
23 Currently, the more significant proposed and
24 anticipated rules are for testing and
25 monitoring contaminants in water supply,

1 radionuclides, and disinfection/disinfection
2 by-products. The EPA continues to
3 promulgate slowly these standards, largely
4 because of the time needed to review
5 pertinent information and data before
6 issuing additional standards.

7 Financial Stress

8 Unlike the Clean Air Act's impact on a
9 select number of electric utilities, SDWA
10 requires virtually the entire industry to
11 improve existing treatment and related
12 facilities. This will result in significant
13 capital additions on top of already
14 escalating spending on distribution
15 infrastructure. Financing these large rate-
16 base additions - which are nonrevenue-
17 producing assets - will be difficult.
18 Internal cash generation is weak, with low
19 depreciation rates (usually about 2% versus
20 around 3% for electric utilities), and low
21 authorized return on equity. As a result,
22 dependence on external financing and rate
23 relief requirements will intensify.

24 Moreover, low authorized returns may affect
25 the industry's ability to attract necessary

1 capital to develop new water supplies and
2 upgrade the quality of existing supplies.
3 Scott Vierima, Vice President of Finance and
4 Administration, will address the impact of these
5 laws and regulations on Southern States' cost of
6 capital. However, I will beat him to the punch
7 by quoting further from the article in Standard
8 & Poor's Creditweek (June 15, 1992), wherein the
9 perspective of potential lenders and other
10 capital providers can be gleaned. The article
11 continues:

12 Poor internal cash generation along with
13 modest demand growth of under 1% will
14 require state utility regulators to play an
15 even more significant role in the future
16 financial well-being of the industry.
17 Traditional ratemaking policy has not
18 provided sufficient credit support during
19 the construction cycle of the electric
20 industry over the past 15 years. To avoid
21 a repeat in the water industry, regulators
22 must be aware of the increased challenges
23 the industry faces. With large rate-base
24 additions, along with increasing nonrevenue-
25 producing assets to meet future and current

1 water needs and mandated water quality
2 standards, regulators will need to implement
3 innovative regulatory policy to allow for
4 reasonable financial protection measures.
5 Techniques to be considered to preclude
6 financial erosion include future test year,
7 automatic adjustment clauses (for large
8 expense items), allowing a cash return on
9 construction work in progress, higher
10 earnable returns, and increased depreciation
11 rates.

12 Q. I SHOW YOU EXHIBIT _____ (BTP-2) UNDER COVER PAGE
13 ENTITLED "WATER UTILITY BENCHMARKS REVISED -
14 STANDARD & POOR'S CREDITWEEK DATED JUNE 15,
15 1992." WAS THIS EXHIBIT PREPARED BY YOU OR UNDER
16 YOUR DIRECTION AND SUPERVISION?

17 A. Yes, it was.

18 Q. IS THIS THE ARTICLE FROM WHICH YOU HAVE JUST
19 QUOTED AT LENGTH?

20 A. Yes, it is.

21 Q. ARE THERE ANY OTHER REASONS WHY SOUTHERN STATES
22 HAS FILED ITS APPLICATION FOR RATE RELIEF.

23 A. Yes. As I previously noted, new laws and
24 regulations have been enacted at both the federal
25 and state levels which have dramatically

1 increased the level of investments Southern
2 States has been required to make in its water and
3 wastewater facilities. As a result of these
4 investments, the cost of staffing, operating and
5 maintaining the required additional facilities
6 and testing our water and effluent also have
7 increased dramatically.

8 Since it has been a number of years since the
9 cost of serving our water and wastewater
10 customers has been determined, millions of
11 dollars of investments and expenses have not been
12 recovered in the rates we have been charging our
13 customers. Southern States can no longer afford
14 to forego the required rate relief.

15 **Q. COULD YOU DESCRIBE SOME OF THE REASONS FOR**
16 **INCREASED INVESTMENTS AND EXPENSES YOU HAVE**
17 **MENTIONED IN FURTHER DETAIL?**

18 **A. Yes, I would be glad to generally describe these**
19 **factors. Various other witnesses for Southern**
20 **States will provide additional details. First,**
21 **new and amended federal and state laws and**
22 **regulations require Southern States to perform**
23 **more tests of its water and effluent, and often**
24 **on a more frequent basis. The Florida Department**
25 **of Environmental Regulation ("DER") recently has**

1 promulgated new rules concerning the
2 stabilization, removal and disposal of sludge.
3 In addition, DER rules require advanced
4 "tertiary" treatment of effluent to meet DER's
5 "public access" standard for effluent reuse.
6 Southern States is a strong advocate of public
7 access reuse water and is providing 100% public
8 access reuse at three systems and up to 88%
9 public access reuse at five other systems.
10 Public access reuse technologies reduce the need
11 to extract potable (drinking) water from the
12 underground aquifer system for irrigation
13 purposes, thus conserving potable water supplies.
14 In addition, Southern States utilizes spray
15 irrigation and percolation ponds to dispose of
16 effluent at virtually all of its remaining
17 wastewater systems. These methods of effluent
18 disposal also assist in recharging Florida's
19 aquifers and are considered "reuse" by regulatory
20 authorities. We believe these facts demonstrate
21 Southern States' commitment to satisfy the
22 State's, as well as Southern States' own,
23 conservation goals.

24 Q. HAS SOUTHERN STATES' BEEN COMMENDED FOR ITS
25 CONSERVATION EFFORTS BY VARIOUS ORGANIZATIONS IN

1 **THE PAST?**

2 A. Yes. Southern States recently has been commended
3 for its conservation efforts, including the
4 education of our customers in the benefits of
5 xeriscaping, by several organizations including
6 the American Water Works Association and the
7 National Xeriscape Council, Inc. In addition,
8 our Company sponsored a 4-H group from Florida
9 which won both state and national competitions
10 regarding conservation/xeriscaping programs. We
11 are very proud of these achievements.

12 Q. **IS THERE A PRICE TO BE PAID FOR THE COMPANY'S**
13 **CONSERVATION EFFORTS?**

14 A. Yes. Compliance with DER's tertiary treatment
15 requirements for public access reuse requires
16 Southern States' to make significant capital
17 investments in its wastewater facilities. In
18 addition, the reuse of effluent by former water
19 customers will reduce water sales thus decreasing
20 the sales base over which our fixed costs may be
21 spread. However, Southern States agrees with the
22 policy of the State of Florida and its regulatory
23 agencies that although the treatment process for
24 reuse is expensive, reuse frequently is both the
25 lowest cost alternative available for effluent

1 disposal and a cost-effective alternative to
2 depleting precious underground water sources.

3 **Q. HAVE THERE BEEN OTHER CHANGES FOSTERED BY**
4 **REGULATORY REQUIREMENTS WHICH HAVE INCREASED THE**
5 **COST OF PROVIDING WATER AND WASTEWATER SERVICE?**

6 **A.** Yes. Staffing requirements also have changed due
7 both to changes in DER regulations as well as
8 operational requirements (to meet higher demands
9 associated with growth) to satisfy the daily
10 needs of our customers. In addition, in
11 September 1988 the Commission issued a management
12 audit review (the "Audit Report") regarding
13 Southern States. Forrest Ludsen, Vice President
14 in charge of Customer Services, will describe the
15 Audit Report and its impact on Southern States in
16 detail. Generally, the Commission's Audit Report
17 recognized that as of September 1988, Southern
18 States had grown to such an extent that the
19 internal management practices and procedures
20 required a comprehensive overhaul. In short, the
21 Staff audit admonished Southern States by
22 recommending that it "act its size." The report
23 contains seventy-nine recommendations for changes
24 in Southern States' management practices and
25 procedures which are rated high, medium and low

1 priorities. As Mr. Ludsen indicates, after
2 careful consideration of the Audit Report
3 findings and negotiation with the staff of
4 modification to certain recommendations, Southern
5 States agreed with and has implemented all but
6 two of the Commission's recommendations. I feel
7 strongly that the audit findings and
8 recommendations were well-founded. After my
9 arrival at Southern States, I would have
10 implemented similar changes even had the Audit
11 Report never been issued. It also must be noted
12 that the import of Staff's 1988 recommendations
13 has increased with the more than doubling in size
14 of Southern States through the acquisition of
15 Deltona and United Florida Utilities Corporation
16 in 1989 and Lehigh in 1991.

17 **Q. COULD YOU BRIEFLY DESCRIBE THE IMPACT OF**
18 **IMPLEMENTING THE AUDIT RECOMMENDATIONS ON THE**
19 **CORPORATE STRUCTURE OF SOUTHERN STATES?**

20 **A.** In general, implementation of the recommendations
21 has created a more defined corporate structure
22 comprised of various new departments with clearly
23 delineated areas of specialization. Mr. Ludsen
24 will provide a detailed analysis of the costs and
25 benefits associated with the implementation of

1 the audit recommendations. This analysis is
2 important since many of these costs and benefits
3 are associated with administrative and general
4 ("A&G") matters. Mr. Ludsen's analysis also
5 confirms that the level of A&G expenses allocated
6 to each of our systems are reasonable for the
7 services provided to our employees and our
8 customers.

9 Q. ARE THERE ANY ADVANTAGES WHICH SOUTHERN STATES
10 OFFERS TO ITS CUSTOMERS IN MEETING THE COSTS OF
11 COMPLIANCE WITH THE LAWS AND REGULATIONS YOU HAVE
12 DESCRIBED WHICH MIGHT NOT BE AVAILABLE TO OTHER
13 CONSUMERS OF WATER AND WASTEWATER SERVICES IN
14 FLORIDA?

15 A. Yes. Our customers can expect to be served by a
16 professional utility company dedicated solely to
17 providing high quality utility service. Our
18 management goals and practices are not distracted
19 by the desire to sell lots or achieve short term
20 advantages. Rather, as confirmed by Mr. Arend
21 Sandbulte, Chief Executive Officer of our parent
22 company, Southern States is in the water and
23 wastewater utility business for the long haul.
24 Southern States represents a family of water and
25 wastewater providers that obtain tax, accounting,

1 billing, collections, customer service, payroll,
2 pensions and benefits and other administrative
3 and general services on a consolidated basis
4 primarily from one source. In addition to
5 benefits in efficiency, the size of this family
6 of utilities enables us to hire specialists who
7 concentrate their efforts on certain limited
8 fields of expertise and identify areas where
9 costs can be decreased or the quality of service
10 improved. In this way, Southern States is able
11 to, among other things, keep abreast of the
12 latest advances in water and wastewater treatment
13 technology, capitalize on cost-saving measures in
14 medical and health insurance as they arise,
15 reduce or otherwise minimize increases in the
16 cost of chemicals and other supplies through bulk
17 purchases made under a bidding process, better
18 monitor customer service orders and complaints so
19 as to identify problem areas more quickly and
20 increase customer satisfaction. In addition,
21 membership in the Southern States family of
22 utilities provides customers served by all of our
23 approximately 150 systems with immediate access
24 to considerable personnel resources during times
25 of emergency or unusual occurrences thereby

1 reducing both the response time as well as the
2 possibility that service to our customers ever
3 would be interrupted. Also, Southern States'
4 size has permitted us to develop a process by
5 which spare utility equipment and accessories
6 have been identified and may be made available to
7 any system in emergency situations with a minimum
8 amount of delay. This process often will
9 eliminate the waiting period for equipment to be
10 ordered from and delivered by a third-party
11 supplier thus further reducing the possibility of
12 service interruptions to Southern States'
13 customers. As an example, soon after Lehigh
14 joined the Southern States family of utilities,
15 we discovered that the Lehigh water system was
16 exceeding the standard for trihalomethanes. Due
17 to our equipment sharing process, we were able to
18 provide Lehigh with ammoniation equipment from
19 another plant to reduce the trihalomethane
20 problem on a temporary basis until new equipment
21 could be obtained from the manufacturer. Thus,
22 we were able to expedite the resolution of the
23 trihalomethane problem at Lehigh and restore
24 compliance with the state standard in the most
25 expeditious manner possible. These are all

1 significant reasons why we believe our customers
2 are benefitted by having Southern States as their
3 water and wastewater service provider.

4 **Q. DOES THAT CONCLUDE YOUR DIRECT TESTIMONY?**

5 **A. Yes, it does.**

Exhibit ____ (BTP-1)
Cover Page

**MAJOR ADDITIONS PLACED IN SERVICE
IN 1990 AND 1991**

Major Additions Placed in Service in 1990 and 1991Amelia Island

1. Wastewater Treatment Plant Expansion. Approximate cost: \$1,944,000

Chuluota

1. Water Transmission & Distribution Facilities (net of CIAC).
Approximate cost: \$165,000

Citrus Springs

1. Water Transmission & Distribution Facilities (net of CIAC).
Approximate cost: \$316,000

Deltona Lakes

1. Wastewater Treatment Plant Improvements. Approximate cost: \$2,278,000
2. Wastewater Effluent Disposal Systems to Two Golf Courses.
Approximate cost: \$2,781,000

Fox Run

1. Water High Service Pumps. Approximate cost: \$118,000

Hermit's Cove

1. Water Distribution Interconnect to Plant (net of CIAC).
Approximate cost: \$120,000

Marion Oaks

1. Water Transmission & Distribution Facilities (net of CIAC).
Approximate cost: \$745,000
2. Water Treatment Plant & Well Addition. Approximate cost:
\$222,000

Pine Ridge

1. Water Transmission & Distribution Facilities (net of CIAC).
Approximate cost: \$625,000

Rosemont

1. Water Treatment Plant, Well & Transmission Addition.
Approximate cost: \$253,000

Salt Springs

1. Water Treatment Plant & Well Addition. Approximate cost:
\$317,000

South Forty

1. Wastewater Treatment Plant & Effluent Disposal Addition.
Approximate cost: \$276,000

Spring Hill

1. Water Transmission & Distribution Facilities (net of CIAC).
Approximate cost: \$1,529,000
2. Water Distribution System Relocation required by Hernando
County. Approximate cost: \$596,000

Sugar Mill Woods

1. Water Treatment Plant & Well Additions. Approximate cost:
\$886,000

Sunny Hills

1. Wastewater Treatment Plant Improvements. Approximate cost: \$114,000

University Shores

1. Water Treatment Plant & Reservoir Addition. Approximate cost: \$324,000
2. Water Transmission & Distribution Facilities (net of CIAC). Approximate cost: \$810,000
3. Wastewater Effluent Disposal Pumping. Approximate cost: \$148,000
4. Wastewater Effluent Disposal at FPL R/W. Approximate cost: \$448,000
5. Wastewater Treatment Plant Improvements. Approximate cost: \$168,000

Woodmere

1. Wastewater Effluent Disposal Outfall. Approximate cost: \$291,000

Exhibit ___ (BTP-2)
Cover Page

**WATER UTILITY BENCHMARKS REVISED -
STANDARD & POOR'S CREDITWEEK
DATED JUNE 15, 1992**

CREDIT COMMENTS

FERC turned down an agreed-upon rate for a 20-year transmission contract between Penelec and a QF customer. The proposed rate had been based on embedded cost with an opportunity cost "adder"; however, FERC would only agree to the higher of either embedded cost or opportunity cost.

In approving Entergy's transmission access filing, FERC set another precedent by allowing recovery of stranded investment. For this provision the key will be in adequately determining how much of the seller's generating or transmission capacity will actually be stranded by a

noncontractual wholesale customer leaving the system, in other words, how long it will take for the seller's remaining native load to grow into live capacity.

As with opportunity cost pricing, FERC's implementation through price setting will determine whether native load customers end up subsidizing these wholesale customers. Should that happen, higher resulting rates could impair the utility's competitive position.

Philip Edwards, municipal finance (212) 208-1851
Debra Bromberg, corporate finance (212) 208-1637

WATER UTILITY BENCHMARKS REVISED

S&P has revised its public financial benchmarks for investor-owned water utilities. The more stringent standards (see table on next page) were implemented as a result of S&P's conclusion that credit risk has escalated in the water utility industry in recent years due to significant challenges related to developing future water supplies and assuring the quality of existing supplies.

In essence, S&P believes that increased business risk should be offset by a stronger financial profile to maintain the same rating. If all other factors remain the same, the new standards will be implemented gradually to provide water utility management and regulators the opportunity to reduce financial leverage or take other measures to address S&P's concerns.

The benchmarks are only guidelines and are not meant to be substituted for in-depth financial and credit analyses. The guidelines are designed to measure financial performance, risk, and protection, and to relate that information to S&P's bond ratings. While these ratios are deemed most important, S&P uses many other financial statistics in the rating process. A qualitative assessment of a water utility's business profile is just as vital to the final rating determination.

NEW CHALLENGES

Concerns over the adequacy of the water supply are particularly relevant in the western U.S. and have been highlighted by the six-year drought in California. Utilities are less likely to continue to develop and enhance water supply through the more traditional approach of large-scale water projects consisting of a network of dams and reservoirs. This is due to less developable sites and increased environmental sensitivity. However, technological advances are providing alternatives to traditional approaches.

Thus far, desalination and water reclamation have been used to a small degree. These procedures require large capital investment and currently remain relatively uneconomical.

A more cost-effective method to develop or enhance current water supply is through conservation. However, with conservation comes reductions in earnings and higher expenses that need to be recovered.

Another major challenge for many water utilities is the ongoing implementation of the 1986 amendment to the Safe Drinking Water Act (SDWA) of 1974. The SDWA amendments are imposing more stringent water quality standards relating to specified levels of substances found in both surface and groundwater supplies. Higher water quality standards are contributing to significant financing and regulatory pressures for the industry.

Ongoing evolution of the Act is expected as the Environmental Protection Agency (EPA) continues to review contaminants that may have an adverse impact on public health. Currently, the more significant proposed and anticipated rules are for testing and monitoring contaminants in water supply, radionuclides, and disinfection/disinfection by-products. The EPA continues to promulgate slowly these standards, largely because of the time needed to review pertinent information and data before issuing additional standards.

FINANCIAL STRESS

Unlike the Clean Air Act's impact on a select number of electric utilities, SDWA requires virtually the entire industry to improve existing treatment and related facilities. This will result in significant capital additions on top of already escalating spending on distribution infrastructure. Financing these large rate-base additions—which are nonrevenue-producing assets—will be difficult. Internal cash genera-

CREDIT COMMENTS

S&P benchmarks				
Previous year benchmarks				
	AA	A	BBB	BB
Pre-tax interest coverage (x)	over 3.00	2.0-3.0	1.0-2.0	under 1.25
Total debt/total capital (%)	under 54	52-60	60-65	over 65
Funds flow interest coverage (x)	over 3.25	2.25-3.75	1.25-2.75	under 1.5
Funds flow operations (FFO)/total debt (%)	over 25	15-27	10-20	under 10
Net cash flow (NCF)/total expenditures (capex) (%)	over 70	65-85	50-65	under 30
Revised water benchmarks				
	AA	A	BBB	BB
Pre-tax interest coverage (x)	over 3.25	2.25-3.75	1.25-2.75	under 1.50
Total debt/total capital (%)	under 60	48-55	54-62	over 62
Funds flow interest coverage (x)	over 3.50	2.50-4.00	1.50-3.00	under 1.75
FFO/total debt (%)	over 25	15-27	10-20	under 12
NCF/capex (%)	over 75	60-90	35-65	under 40
Utilities benchmarks				
Pre-tax interest coverage (x)				
	AA	A	BBB	BB
Electric utilities	over 3.0	2.5-4.0	1.8-3.0	under 1.75
Gas distributors	over 4.0	3.0-4.25	2.0-3.25	under 2.00
Gas pipelines	over 4.5	3.5-4.75	2.5-3.75	under 2.75
Telephones	over 4.5	3.5-6.5	3.3-4.5	
Total debt/total capital (%)				
	AA	A	BBB	BB
Electric utilities	under 48	44-54	50-62	over 60
Gas distributors	under 48	42-50	47-60	over 62
Gas pipelines	under 40	40-50	45-55	over 65
Telephones	under 42	40-52	50-62	
Funds flow interest coverage (x)				
	AA	A	BBB	BB
Electric utilities	over 3.75	2.75-4.25	1.75-3.25	under 2.0
Gas distributors	over 4.25	3.25-4.5	2.25-3.5	under 2.5
Gas pipelines	over 4.75	3.75-5.0	2.75-4.0	under 3.0
Telephones	over 5.5	5.0-7.0	3.5-5.5	
FFO/total debt (%)				
	AA	A	BBB	BB
Electric utilities	over 27	17-30	12-22	under 16
Gas distributors	over 30	20-30	15-25	under 17
Gas pipelines	over 40	30-45	20-30	under 25
NCF/long-term debt (%)				
	AA	A	BBB	BB
Telephones	over 32	25-32	20-30	
NCF/capex (%)				
	AA	A	BBB	BB
Electric utilities	over 80	65-85	40-70	under 45
Gas distributors	over 100	70-110	45-80	under 60
Gas pipelines	over 100	80-140	60-100	under 70

Moreover, low authorized returns may affect the industry's ability to attract necessary capital to develop new water supplies and upgrade the quality of existing supplies.

REGULATORY CONCERNS

Poor internal cash generation along with modest demand growth of under 1% will require state utility regulators to play an even more significant role in the future financial well-being of the industry. Traditional rate-making policy has not provided sufficient credit support during the construction cycle of the electric industry over the past 15 years. To avoid a repeat in the water industry, regulators must be aware of the increased challenges the industry faces. With large rate-base additions, along with increasing nonrevenue-producing assets to meet future and current water needs and mandated water quality standards, regulators will need to implement innovative regulatory policy to allow for reasonable financial protection measures.

Techniques to be considered to preclude financial erosion include future test year, automatic adjustment clauses (for large expense items), allowing a cash return on construction work in progress, higher earnout returns, and increased depreciation rates.

ROLE OF MANAGEMENT

Water utility management must do its part by continuing to file aggressively for timely rate relief so that the financial profiles of their utilities are not negatively affected by regulatory lag. Moreover, management must continue to educate the public and regulators about the whole range of challenges facing the water industry.

Beyond these steps, it is even more important for management to position their utilities financially by maintaining reasonable capital structures during the construction phase to limit financial deterioration. This will help utilities maintain their financial profiles in line with S&P's revised benchmark guidelines and may prevent credit quality erosion.

John J. Bilardello (212) 208-1525
Raymond M. Leung (212) 208-1621

tion is weak, with low depreciation rates (usually about 2% versus around 3% for electric utilities), and low authorized return on equity. As a result, dependence on external financing and rate relief requirements will intensify.

NEW RULES, POOR FINANCIALS IMPACT GAS PIPELINES

S&P recently concluded its evaluation of six natural gas pipeline companies that had been placed on CreditWatch with negative implications. The placement of the ratings on CreditWatch was triggered mainly by disappointment over the financial profile of each of these companies. Five of the six systems had their

ratings downgraded, and certain specific security ratings fell into speculative-grade territory.

Nevertheless, four of the six operating pipelines maintained their investment-grade status, despite financials that are weak for these ratings. The maintenance of investment-grade ratings reflects S&P's opinion that financial im-