

DOCKET 950495-WS
EXHIBIT NO. 67
CASE NO. 96-04227



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BEFORE THE
FLORIDA PUBLIC SERVICE COMMISSION
DOCKET NO. 950495 - WS
APPLICATION FOR A GENERAL RATE INCREASE

VOLUME I
BOOK 17 OF 22

**MINIMUM FILING REQUIREMENTS
PREFILED DIRECT TESTIMONY**

Containing

RAFAEL A. TERRERO, P.E.

FLORIDA PUBLIC SERVICE COMMISSION
DOCKET NO. _____ EXHIBIT NO. _____
COMPANY/ WITNESS: _____
DATE _____

DOCUMENT NUMBER - DATE

06028 JUN 28 1996

FPSC-RECORDS/REPORTING

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DIRECT TESTIMONY OF RAFAEL A. TERRERO, P.E.
BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION
ON BEHALF OF
SOUTHERN STATES UTILITIES, INC.
DOCKET NO. 950495-WS

1 Q. PLEASE STATE YOUR NAME AND ADDRESS.

2 A. My name is Rafael A. Terrero. My business address is 1000 Color Place,
3 Apopka, Florida 32703.

4 Q. BY WHOM ARE YOU EMPLOYED AND IN WHAT POSITION?

5 A. I am employed by Southern States Utilities, Inc. (Southern States) as
6 Manager of Environmental Services. Prior to holding this position, I
7 served as Chief Engineer in charge of Engineering and Planning.

8 Q. COULD YOU BRIEFLY DESCRIBE YOUR DUTIES AS MANAGER
9 OF ENVIRONMENTAL SERVICES?

10 A. As Manager of Environmental Services, I am responsible for all activities
11 of the Environmental Compliance and Permitting Department including
12 coordination of all Company efforts with environmental regulators,
13 preparation, filing and processing of permits for all facilities statewide, and
14 statewide monitoring, training and auditing of compliance with applicable
15 laws, rules and standards. I also am co-leader of the Budget Evaluation
16 Team which is responsible for directing SSU investments each year to
17 projects based on an established priority basis. My department must
18 maintain familiarity with all environmental issues affecting SSU's facilities
19 statewide.

20 Q. PLEASE SUMMARIZE YOUR EDUCATION.

21 A. I received a Bachelor of Science degree with a major in Environmental
22 and Urban Systems from the School of Technology, Florida International

1 University in December 1974.

2 I have completed courses in utility regulation sponsored by the
3 National Association of Regulatory Utility Commissioners (NARUC) in
4 conjunction with the University of South Florida. I have also participated
5 in seminars sponsored by the Training Research and Education for
6 Environmental Occupation (TREEO) center in conjunction with the
7 University of Florida in reference to water and wastewater treatment
8 facilities.

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

10 A. I am a Professional Engineer and have been registered to practice in the
11 State of Florida since 1977. I am a member of the American Society of
12 Civil Engineers, Florida Engineering Society, the American Water Works
13 Association and the Water Environment Association. I also am a member
14 of the AWWA Water Supply Committee, AWWA Reuse Committee, FEA
15 Reuse Committee and am a former member of the Lee County Water
16 Supply Authority.

17 **Q. HAVE YOU PREPARED A RESUME WHICH REFLECTS YOUR
18 QUALIFICATIONS AND PRIOR WORK EXPERIENCE?**

19 A. Yes. Exhibit ___ (RAT-1) contains a copy of my current resume which
20 identifies my qualifications and prior work experience.

21 **Q. HAVE YOU PREVIOUSLY TESTIFIED BEFORE A REGULATORY
22 AGENCY?**

1 A. Yes. I have testified before the Florida Public Service Commission and
2 before hearing officers in Hillsborough County on behalf of SSU in
3 multiple dockets.

4 **Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY?**

5 A. I will (1) provide information which supports Southern States' request to
6 use the hydraulic flow method to calculate the used and useful levels for
7 the Citrus Springs, Pine Ridge, Sunny Hills and Marion Oaks service
8 areas; (2) provide facts concerning SSU's training and employee education
9 activities which demonstrate how SSU's water and wastewater services are
10 functionally related and cross county boundaries; (3) describe the activities
11 of SSU's capital budget evaluation team ("BE Team") as evidence of the
12 functional interrelatedness of SSU's land and facilities wherever in Florida
13 they are located; (4) support SSU's breakdown of water customers into
14 separate conventional treatment and reverse osmosis treatment service
15 classifications; (5) support the movement of certain land parcels from plant
16 held for future use to plant in service; and (6) demonstrate that not only
17 is SSU's current mode of operation cost-effective, it also results in our
18 ability to provide safe, efficient and sufficient service to our customers --
19 as demonstrated by the existence of only two consent orders outstanding
20 at this time.

21 **Q. DO YOU HAVE ANY PERSONAL KNOWLEDGE OF**
22 **INFORMATION THAT CONFIRMS THE LEGITIMACY OF USING**

1 **THE HYDRAULIC FLOW ANALYSIS TO DETERMINE THE USED**
2 **AND USEFUL LEVELS FOR SSU'S WATER TRANSMISSION AND**
3 **DISTRIBUTION FACILITIES?**

4 A. Yes. The hydraulic flow analysis has been a generally accepted method
5 used by professional engineers to design transmission and distribution
6 facilities for city, county and investor-owned utilities. I was employed by
7 Deltona Utilities, Inc. ("DUI") from 1966 until DUI was purchased by
8 Southern States. During my employment with DUI, I participated in the
9 design of the water transmission and distribution facilities for the Citrus
10 Springs, Pine Ridge, Sunny Hills and Marion Oaks service areas. I know
11 that the facilities were designed using the hydraulic flow analysis method.
12 Also, as indicated in my resume which is contained in Exhibit ___ (RAT-
13 1), I have a great deal of experience with hydraulic flow analyses and from
14 this experience I know that these analyses have been reliable.

15 **Q. DO YOU BELIEVE THE LOT COUNT METHOD IS AN**
16 **APPROPRIATE METHOD FOR DETERMINING THE USED AND**
17 **USEFUL LEVELS OF WATER TRANSMISSION AND**
18 **DISTRIBUTION FACILITIES?**

19 A. No. As I indicated previously, it would not be possible nor permissible for
20 a professional engineer to design water transmission and distribution
21 facilities on a lot count basis. Therefore, I completely agree with SSU's
22 use of the hydraulic flow analysis for determining the used and useful

1 levels for the facilities at Citrus Springs, Pine Ridge, Sunny Hills and
2 Marion Oaks.

3 **Q. PLEASE GENERALLY DESCRIBE THE SSU TRAINING AND**
4 **EMPLOYEE EDUCATION ACTIVITIES WHICH DEMONSTRATE**
5 **HOW SSU'S WATER AND WASTEWATER SERVICES ARE**
6 **FUNCTIONALLY RELATED AND CROSS COUNTY**
7 **BOUNDARIES.**

8 A. Employees from the operations services (also called technical services)
9 department, environmental compliance and permitting department and
10 senior operations personnel based in Apopka provide technical training on
11 water and wastewater operations and maintenance related topics. This
12 training is provided predominately in Apopka (Orange County) as well as
13 on site at individual plants or in central locations within each region. The
14 location where particular training is provided depends upon the type and
15 content of the training to be provided. Broad descriptions of the
16 operations related training provided to SSU's operations personnel include
17 the following:

18 1. Workshops for water and wastewater field personnel
19 regarding updates on new or modified environmental laws or rules, for
20 instance, those concerning backflow prevention procedures, cross-
21 connection control requirements and procedures, lead and copper testing
22 procedures, customer notification procedures and similar topics.

1 2. Environmental services also performs permit familiarization
2 services for field personnel upon permit issuance, renewal and/or
3 modification. This training keeps field personnel up to date on operating
4 requirements, particularly where those requirements may deviate for a
5 specific permit from the standard requirements. I will discuss this
6 familiarization process later in this testimony.

7 3. Technical Services conduct certification preparation courses
8 for field personnel preparing for licensing exams.

9 4. Technical Services conducts refresher courses for operators
10 and operator trainees concerning plant processes, procedures, etc.

11 5. Personnel from the Environmental Compliance and Training
12 departments as well as senior operators based in Apopka conduct safety
13 training such as confined space entry training, chemical right to know
14 classes, and electric safety training (lock-out/tag out), bloodborne
15 pathogens, hazard communication, etc.

16 6. Technical Services is responsible for the conduct of training
17 statewide, at times with the use of outside vendors (at no expense) and/or
18 senior operators, regarding procedures such as trenching/excavation
19 techniques, cross-connection recognition techniques, customer
20 relations/communications techniques and the proper installation,
21 maintenance, operation and selection of equipment such as chlorination
22 equipment, paint spraying equipment, laboratory equipment, metering

1 equipment.

2 SSU also provides operations employees statewide with funding to
3 attend courses in various topics necessary to obtain state licensing in areas
4 such as:

5 Water Treatment (A, B, and C)

6 Wastewater Treatment (A, B, and C)

7 Distribution Systems (A, B, and C)

8 Collection Systems (A, B, and C)

9 Backflow Prevention/Tester

10 Backflow Assembly/Repair and Maintenance

11 Cross Connection Control Management

12 These courses are available either by correspondence course or in
13 a classroom setting at local junior colleges or vocational-technical schools
14 approved by either the Florida Department of Professional Regulation (in
15 the case of water and wastewater treatment courses), or the Florida Water
16 and Pollution Control Operators' Association or University of Florida
17 TREEO Center in the case of distribution, collection, backflow and cross
18 connection licenses. All requests for outside training and education are
19 submitted to the local supervisor and then to the Human Resources
20 department in Apopka (Orange County) for review, approval and
21 processing for payment.

22 As described by Ms. Dale Lock, SSU's Human Resources

1 Administrator, in addition to this training, the Training Department located
2 in Apopka provides management and supervisory training as well as
3 training on customer service techniques, telephone etiquette, computer use,
4 computer software, leadership, organizational development, team building
5 and a variety of other topics. This training is provided to operations
6 personnel as well as other SSU employees to improve management quality,
7 work efficiency and service to our customers.

8 **Q. I SHOW YOU EXHIBIT _____ (RAT-2). WAS THIS EXHIBIT**
9 **PREPARED BY YOU OR UNDER YOUR DIRECTION AND**
10 **SUPERVISION?**

11 **A.** Yes, it was.

12 **Q. COULD YOU BRIEFLY DESCRIBE THIS EXHIBIT?**

13 **A.** This exhibit provides a list of 175 safety training classes held by SSU in
14 1993 and 1994 as well as safety and equipment handling classes presented
15 by outside vendors on SSU's behalf, at no cost to SSU. More than 1,300
16 SSU employees statewide attended these classes in 1993 and 1994. The
17 exhibit also contains the same information for 1995, year to date, including
18 the number of man hours associated with employee attendance at these
19 training sessions. These safety and training classes are held both in
20 Apopka and at SSU offices throughout Florida. The classes often are
21 attended by managers, operators and/or field personnel who are based at
22 different systems throughout Florida. This list does not include additional

1 training which occurs between operations personnel such as the training of
2 SSU operators at Lehigh in the use of ammoniation equipment by SSU
3 personnel from Marco Island or the training provided by SSU's operators
4 formerly based at Venice Gardens of operators located at Marco Island in
5 the proper operation and maintenance of reverse osmosis equipment.

6 Each of these functional relationships of an operational character
7 are part of the framework which, only when consolidated with the rest of
8 SSU's utility operations, make up SSU and the water and wastewater
9 services provided to each of our customers.

10 **Q. COULD YOU PLEASE FURTHER DESCRIBE THE STATEWIDE**
11 **PERMIT FAMILIARIZATION PROCESS?**

12 **A.** The permit familiarization process is a continuous process throughout the
13 year involving multiple departments and employees located state-wide.
14 The process consists of the following: permit applications are prepared
15 and submitted to the appropriate authority by the ECPD. Permit
16 negotiations are conducted by the ECPD and Legal Department in
17 consultation with Operations and/or Engineering personnel as appropriate.
18 Upon receipt of a permit: (1) the ECPD reviews the permit terms and
19 conditions; (2) the ECPD designates responsibilities for compliance to
20 appropriate SSU departments and personnel and distributes the permit to
21 all effected departments and the appropriate system; (3) the ECPD
22 provides written designations of responsibilities including explanations of

1 any terms and conditions which exceed or are in addition to standard terms
2 and conditions; (4) the ECPD communicates verbally with appropriate
3 Engineering and Operations personnel concerning permit terms and
4 conditions; (5) the regional manager conducts meetings with appropriate
5 operations personnel both upon receipt of the permit and subsequent to
6 meeting(s) with ECPD personnel to verify compliance; (6) the ECPD
7 meets in person with appropriate operations personnel including the
8 regional manager, area supervisor and plant operators -- the frequency and
9 number of such meetings held will depend on the complexity of the permit
10 terms and conditions; and (7) after review and agreement by all concerned,
11 ECPD, if necessary, will contact regulatory agency to propose desired
12 changes.

13 **Q. YOU PREVIOUSLY REFERRED TO A CAPITAL BUDGET**
14 **EVALUATION OR "BE" TEAM. DOES THE EXISTENCE OF**
15 **THIS TEAM SUPPORT A FINDING BY THE COMMISSION OF**
16 **THE FUNCTIONAL INTERRELATIONSHIP OF SSU'S LAND AND**
17 **FACILITIES?**

18 **A.** Yes. The BE Team is an example of the functional interrelationship
19 between SSU's land and facilities used to provide water and wastewater
20 service to our customers. The BE Team is comprised of the Regional
21 Managers, the General Manager-Operations , the Manager of Facilities
22 Analysis, the Manager of Plant Accounting, all engineers and other SSU

1 personnel. I lead the team together with the General Manager-Operations.
2 The team is responsible for formulating SSU's annual and 5-year capital
3 budgets and presenting the budgets to Company management. Once
4 approved, the budgets are presented to SSU's board of directors for final
5 approval. From its inception, the BE Team has been responsible for
6 identifying the capital needs of every water and wastewater facility,
7 wherever in the state the facility may be located. The primary areas of
8 focus in determining the types and amount of capital improvements to be
9 made (within the limitations on capital available for investment) were the
10 size of the customer base served by a particular system, the level of prior
11 investment in the system and the existing rates of the system. Therefore,
12 prior to statewide uniform rates, the presence of representatives of the legal
13 and rates departments was more critical to the operation of the BE Team.
14 With the advent of uniform rates, these factors are less important so that
15 investment decisions can be made based on the need for a particular
16 investment to protect the health and safety of our employees, customers
17 and the environment, wherever in the state our land and facilities are
18 located (again, within the limits of the capital available for investment).
19 In short, the BE Team acts on the basis of SSU's capital needs statewide,
20 regardless of county boundaries or specific system histories.

21 **Q. WHAT OTHER SERVICES ARE PROVIDED BY EMPLOYEES**
22 **BASED AT THE COMPANY'S HEADQUARTERS?**

1 A. The physical plant and lines in the ground would not even exist but for the
2 services provided by other SSU personnel including the environmental
3 compliance and permitting ("ECPD") departments which secure the
4 permits; the legal department which secures the franchise and zoning
5 approvals; the engineering department which designs the facilities; and the
6 construction management area which oversees construction, etc.

7 These Apopka based departments provide such services for all of
8 SSU's facilities throughout Florida. The consolidation and coordination
9 of the efforts of these Apopka departments enable SSU to provide the best
10 services to SSU's customers. For instance, the coordinated efforts of
11 experts from each of these departments results in SSU's ability to maintain
12 a rules tracking team consisting of members from these areas and
13 operations personnel, as further described by SSU witness Kowalsky.
14 Services like this rules tracking service only can be provided by large
15 utilities like SSU which have the experience, expertise and economic
16 support to accomplish this service. Also, our efforts through the rules
17 tracking team have assisted SSU in keeping our costs as low as possible
18 through input in the rulemaking processes at the various agencies. As Ms.
19 Kowalsky also notes, SSU's ability to attract and retain professionals in the
20 environmental compliance, permitting and legal areas has given us the
21 expertise necessary to persuade regulators to modify proposed rules, permit
22 requirements, or other requirements which they might have imposed on us.

1 An example is the quick response SSU was able to take when
2 representatives of the St. John's Water Management District contemplated
3 requiring SSU to relocate our wells serving customers in the Deltona
4 Lakes service area. A massive relocation of these wells could have cost
5 SSU in the neighborhood of \$20 million. We have forestalled such a
6 requirement to date by working with the District and obtaining their co-
7 funding of a comprehensive water study instead. Services like the rules
8 tracking service are essential ingredients of SSU's water and wastewater
9 service to our customers.

10 **Q. WILL ALL OF THE ACTIVITIES AND SERVICES PROVIDED BY**
11 **YOUR DEPARTMENT AND THE BUDGET EVALUATION TEAM**
12 **BE PROVIDED TO THE BUENAVENTURA LAKES, LAKESIDE,**
13 **SPRING GARDENS AND VALENCIA TERRACE SERVICE**
14 **AREAS?**

15 **A.** Yes. The Buenaventura Lakes, Lakeside, Spring Gardens and Valencia
16 Terrace service areas will be incorporated into SSU's utility system and
17 receive all of the services and activities from my department and the BE
18 team which I previously have described.

19 **Q. DO YOU HAVE ANY COMMENTS CONCERNING SSU'S**
20 **DIVISION OF WATER SERVICE CLASSIFICATIONS INTO**
21 **DISTINCT CLASSES FOR CUSTOMERS RECEIVING WATER**
22 **FROM CONVENTIONAL VERSUS REVERSE OSMOSIS**

1 **TREATMENT FACILITIES?**

2 A. Yes. I agree with the division of customers into two distinct service
3 classifications depending upon whether they receive water from
4 conventional versus reverse osmosis facilities. The principal distinction
5 between these two service classifications is the type of supply source
6 which must be tapped to provide them water. Conventional treatment is
7 all that is necessary to bring fresh water supplies regardless of process into
8 compliance with standards. On the other hand, reverse osmosis treatment
9 is required to meet these standards in areas where the fresh water supply
10 is absent and the predominant water supply is brackish. All things being
11 equal, the cost of building and operating reverse osmosis facilities will be
12 much higher than the cost of building and operating conventional treatment
13 facilities.

14 A review of the plant in service additions included in this
15 proceeding for the Marco Island and Burnt Store reverse osmosis facilities,
16 approximately \$18 million and \$3.7 million for approximately 6,100 and
17 700 customers, respectively, is an indication of this fact.

18 **Q. SSU IS PROPOSING THAT CERTAIN LAND PARCELS**
19 **PREVIOUSLY IDENTIFIED AS PLANT HELD FOR FUTURE USE**
20 **BE MOVED INTO PLANT IN SERVICE. COULD YOU IDENTIFY**
21 **THESE PARCELS AND EXPLAIN WHY MOVEMENT INTO**
22 **PLANT IN SERVICE IS REASONABLE?**

1 A. SSU is proposing that land we own in the following service areas be
2 moved from plant held for future use into plant in service: Citrus Springs
3 (\$3,400) (water); Deltona Lakes (\$33,000) (water); Marco Island
4 (\$220,855) (water); and Marion Oaks (\$9,900) (water).

5 The Citrus Springs site has been used to drill a test well to make
6 sure that the water quality and quantity will meet standards set by
7 regulations. The drilling of the test well assures that this site will be used
8 at a later date and the existing distribution mains installed to serve existing
9 customers are not oversized due to a central water treatment plant facility.
10 This site has been strategically located to serve the existing customers with
11 the most efficient and economic water distribution system.

12 The Deltona Lakes site has also been drilled with a test well in
13 order to provide existing customers with the most efficient distribution
14 system. Since the system was designed in 1967, this site was held for
15 future use. The evolution of new regulations has made this site an
16 exemption of the 500' radius for wellhead protection since the drilling took
17 place prior to adoption of the rules.

18 The Marco Island site is a raw water supply that has been permitted
19 by the Corps of Engineers and permitting will be pending the approval of
20 a transmission line to the main in State Road 951. An agreement has been
21 reached with the agricultural interests regarding the easements to install the
22 line. This site will also serve as a mitigation for wetlands impact due to

1 new regulations for our existing water supply.

2 The Marion Oaks site will be used for a new well due to relocation
3 of the existing well. The existing well was installed at the inception of the
4 Marion Oaks plant and regulations were more lenient then with only a 200
5 foot setback requirement from possible pollution sources. As of today, we
6 have not observed any problems with the well, but FDEP has required the
7 relocation of the facilities so the land will be used for the new well site
8 and should be included in rate base.

9 **Q. ARE THERE ANY OUTSTANDING CONSENT ORDERS**
10 **REQUIRING SSU TO TAKE CORRECTIVE ACTION?**

11 A. There is one consent order for the Burnt Store water facilities which
12 requires SSU to eliminate the surface water discharge of the brine reject
13 from the reverse osmosis treatment process by April 1996. The costs
14 associated with complying with this consent order -- construction of an
15 injection well -- are included in the 1996 projected test year. Currently,
16 we anticipate timely compliance.

17 There is a Putnam County consent order outstanding for several
18 water plants. All work required under this consent order has been
19 completed with the exception of the Wootens plant where land acquisition
20 has been our hurdle to complete the improvements.

21 We also have an outstanding administrative order from the United
22 States Environmental Protection Agency for an exceedance of toxicity

1 levels at our Woodmere facility. We have a toxicity reduction evaluation
2 in process and expect to be able to comply with the February 1996
3 deadline imposed by the order.

4 SSU believes this very limited number of outstanding consent
5 orders and administrative orders is evidence of the safe, efficient and
6 sufficient service we are providing to our customers.

7 **Q. DOES THAT CONCLUDE YOUR TESTIMONY?**

8 **A. Yes.**

DOCKET 950495-W5
EXHIBIT NO. 80
CASE NO. 96-04227

EXHIBIT (RAT-1)

PAGE 1 **OF** 6

RAFAEL A. TERRERO, P.E.
2711 Ambrosia Court
Apopka, Florida 32703
Phone (407) 884-8931

EDUCATION:

Florida International University School of Technology, B.S. Environmental Technology
(Graduated 1974)

Miami Dade Junior College, Miami, Florida, A.A.S. Civil Engineering (Graduated 1973)

Attendance to trade workshops, i.e., Regulation of Utilities, Water Treatment Plant Design, EPA and DER, sponsored workshops, F.C.C.: Environmental Permitting

PROFESSIONAL REGISTRATION:

Civil Engineer, State of Florida No. 21076, (January 1977)

TECHNICAL PUBLICATIONS:

Co-Author of The Planning and Design of a Reverse Osmosis Plant Using a Deteriorating Water Supply presented at the AWWA Membrane Technology Conference (March 1991)

Co-Author of Marco Island RO Plant. Overcoming Regulatory and Construction Obstacles. A Case Study presented at the AWWA 1992 Conference, Vancouver B.C. (June 1992)

PROFESSIONAL EXPERIENCE:

Southern States Utilities, Inc. 1000 Color Place, Apopka, Florida 32712
(May 1992 to Present)

Manager, Environmental Services. Perform water and wastewater monitoring for operational compliance with environmental regulatory requirements; such monitoring may include safety considerations, testing and permitting. Performs administrative work relating to assignments including appropriate reports, action plans, recommendations, etc. Effective performance achieved through application of internal and professional practices and cost considerations to assure compliance with all rules, regulations and permits while maintaining reliable, cost-effective service. Supervisor - Karla Olson Teasley, V.P. Corporate Services

(August 1989 to May 1992)

Chief Engineer, Planning and Engineering. Solely in charge of Engineering and Planning Department and staff of 14. Providing in house Engineering services and supervision of outside Consultants for all of the company's 144 water, wastewater and gas systems. Responsibilities include management and coordination of all activities of engineering staff, establishment of basic design approach, daily contact with Regulatory Agencies to obtain permits and certifications for all systems and treatment facilities. In charge of planning, including feasibility studies and budgeting. Evaluations of used and useful data for proposed rate cases before the Public Service Commission and other regulatory agencies. Supervisor - Charles E. Wood, P.E., V.P. Planning and Engineering

FLORIDA PUBLIC SERVICE COMMISSION
DOCKET 950495
NO. 950495 **EXHIBIT NO.** 80
COMPANY/ SSU/Terrero
WITNESS: SSU/Terrero
DATE: 7/29/96

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FPSC-RECORDS/REPORTING

Rafael A. Terrero, P.E.**ACCOMPLISHMENTS: (continued)**

(1974) Follow-up of work designed in prior year due to slow down in economy. Graduated with a B.S. in Environmental and Urban Systems Program from Florida International University in December 1974.

Promoted to Engineer with the responsibilities of Design Supervisor for all phases of water distribution, wastewater collection and gas distribution systems. Supervision of Pollution Surveys at different communities developed by the Deltona Corporation.

(1973) Preliminary study for a Wastewater District for Marion Oaks Subdivision, Marion County, Florida, consisting of approximately 34,000 lots. Design of water distribution system and gas distribution system for the above mentioned subdivision.

(1972) Design of water distribution and gas distribution systems for Pine Ridge Subdivision, Citrus County, Florida consisting of 9,000 lots with an area of 1 to 5 acres each.

(1971) In January of this year, an Engineering Technician was placed under my supervision to design wastewater collection systems.

Designing of water distribution, wastewater collection and gas distribution systems to serve Sunny Hills Subdivision, Washington County, Florida, consisting of 32,000 lots, and additional 5,000 to 6,000 multi-family units as incorporated in the design.

On May, 1971 a Professional Engineer was hired to work under my supervision, assisting on Hardy Cross Analyst.

Design of a 14" raw water transmission line, 9 miles long, parallel to a 12" existing line to serve Marco Island, estimated cost \$1,250,000.

Design of water distribution system to serve 540 unit hotel at Marco Island, estimated cost \$92,000.

(1970) Design of water distribution, wastewater collection and gas distribution systems for St. Augustine Shores Subdivision, St. John County, Florida containing 9,000 lots and 4,000 multi-family units.

(1969) Design of water distribution system to serve Citrus County, Florida, with approximately 32,000 lots, pipe diameter varies from 4" to 20" Sanitary wastewater collection system to serve a portion of Citrus Springs Subdivision, consisting of about 2,000 lots; the system included lift stations, pumping stations and force mains. Sanitary wastewater systems to service Citrus Springs Subdivision consisting of 32,000 lots. Mains vary from 1/2" to 2".

(1968) Water distribution design for Spring Hill Subdivision, Hernando County, Florida consisting of approximately 35,000 lots, as of this date completion is 98 percent. Pipe diameters vary from 4" to 20", fire flows were included in the design. Design of wastewater collection system for Spring Hill Subdivision, consisting of 4,600 residential lots. As of this date this system has been completed and certified. Design of gas distribution system for the same 4,600 lots. Pipe diameter vary in size from 1/2" to 8". Sanitary wastewater study for Marco Island Subdivision, Collier County, establishing lift station areas for approximately 11,000 lots. Force main study to serve these lift stations and pumping stations. Hydraulic study of combined lift stations and pumping station. Complete study consisted of approximately 108 lift station areas.

(1967) Design of wastewater system for second housing area for Deltona Subdivision, Volusia County, Florida containing about 500 residential lots, some business tracts, and school site.

August 1967 started Hardy Cross Analysis for the complete Deltona Subdivision, consisting of 426 miles of water mains. As of this date 436 miles have been completed. The pipe diameters vary from 4" to 14", fire protection was included in the design.

Rafael A. Terrero, P.E.**ACCOMPLISHMENTS: (continued)**

September 1967, started Hardy Cross Analysis for Marco Island Subdivision, Collier County, Florida, containing approximately 180 miles of water main varying in size from 4" to 36". There are approximately 13,000 residential lots, projected amount of multi-family and hotel units is unknown due to the fact of changing zoning regulations.

(1966) Design of wastewater system to serve Memory Lane Tract, Village of Manilus, County of Onondaga.

Note: Starting in 1965, field inspection of the different projects was done for engineering certification.

There were several different projects involving testing of water supply, checking for leaks, etc. In June, 1966, assisted Mr. William R. Sabis with laboratory and field analyses for this Thesis entitled Some Effects Of A Secondary Effluent On A Small Receiving Stream, submitted in partial fulfillment of the requirements of the degree of Master of Science in Sanitary Engineering in the Graduate School of Syracuse University.

(1965) Field survey for Fairmount Wastewater System. Preparation of drawings from field notes. Design of portion of sanitary sewers for Fairmount Wastewater District, Town of Camillus County of Onondaga. Estimated construction cot \$110,000.

(1964) Preparation of drawings from field notes and worked in close support with the design engineer. Recommendation of small changes and effect on original design. Worked with minimum supervision. Design of portion of Village of North Syracuse Sanitary Sewer District.

Field survey and level run to establish minimum design elevations of Village of North Syracuse. Approximate cot of construction of collection system \$500,000.

(1963) *Draftsman for Mr. Anthony J. Malley, P.E. Syracuse, New York.*

**SOUTHERN STATES UTILITIES
1993 SAFETY TRAINING SUMMARY**

<u>DATE</u>	<u>LOCATION</u>	<u>TOPIC</u>	<u>NO. OF ATTENDEES</u>
1/11/93	Spring Hill	Shoes	9
1/12/93	Amelia Island	Safety Lockout Procedures	6
1/14/93	Apopka	Self-Contained Breathing	15
2/93	Ft. Myers	Cl ₂ Troubleshooting	1
2/4/93	Marco Island	Electrical Safety/Lockout	17
2/11/93	Apopka	Safety	15
2/16/93	Spring Hill	Driving	12
2/18/93	Amelia Island	Material Safety Data Sheets	5
3/7/93	Spring Hill	Confined Space Entry Training	23
3/8/93	Citrus Springs	Confined Space Entry Training	8
3/15/93	Spring Hill	Safety Equipment	11
3/26/93	Apopka	Safety in traffic	13
4/93	Spring Hill	First Aid	8
4/6/93	Lake Gibson	Confined Space Entry	4
4/6/93	Seaboard	Confined Space Entry	5
4/8/93	Marion Oaks	Confined Space Entry	8
4/9/93	Apopka	Confined Space Entry	18

**SOUTHERN STATES UTILITIES
1993 SAFETY TRAINING SUMMARY (CONTINUED)**

<u>DATE</u>	<u>LOCATION</u>	<u>TOPIC</u>	<u>NO. OF ATTENDEES</u>
4/14/93	Venice Gardens	Confined Space Entry	24
4/15/93	Lehigh	Confined Space Entry	24
4/16/93	Marco Island	Confined Space Entry	26
5/7/93	Apopka	Confined Space Entry	16
5/19/93	Spring Hill	Hand Tools	9
5/21/93	Apopka	First Aid and Bloodborne Pathogens	17
5/27/93	University Shores	Confined Space Entry	9
6/93	Charlotte County Office	Hurricane Preparedness	1
6/18/93	Spring Hill	Vehicles	11
6/23/93	Deltona	Confined Space Entry	27
6/25/93	Apopka	Confined Space Equipment	15
6/29/93	Sunshine Parkway	Confined Space Entry	3
7/2/93	Apopka	Heat Stress	12
7/7/93	Martin County	Confined Space Entry	3
7/15/93	Amelia Island	Confined Space Entry	4
7/15/93	Pomona Park	Confined Space Entry	6

**SOUTHERN STATES UTILITIES
1993 SAFETY TRAINING SUMMARY (CONTINUED)**

<u>DATE</u>	<u>LOCATION</u>	<u>TOPIC</u>	<u>NO. OF ATTENDEES</u>
7/16/93	Woodmere	Confined Space Entry	6
7/19/93	Spring Hill	Drugs/Alcohol	7
7/27/93 - 7/28/93	Lehigh	Safety Training	30
8/93	Lehigh	Air Pac (Breathing) Training	3
8/9/93	Spring Hill	Fire	8
8/11/93	Deltona	Chlorine Safety, Heat, Back (Lifting Techniques)	28
8/26/93	Apopka	Eye/Hand/Head Injury Protection	15
9/93	Lehigh	Air Pac (Breathing) Training	3
9/93	Sarasota Memorial Hospital	Confined Space Entry	1
9/4/93	Spring Hill	Chemicals	8
10/93	Lehigh	Air Pac (Breathing) Training	3
10/6/93	Woodmere	Electrical Lockout	11
10/8/93	Apopka	General Safety	14
10/18/93	Spring Hill	Safety Checklist	12

SOUTHERN STATES UTILITIES
1993 SAFETY TRAINING SUMMARY (CONTINUED)

<u>DATE</u>	<u>LOCATION</u>	<u>TOPIC</u>	<u>NO. OF ATTENDEES</u>
10/22/93	Apopka	Minimizing Back Strains	16
10/28/93	National Safety Council	Driving	23
11/93	Venice Gardens	R.O. Skid Maintenance	3
11/3/93	Sunny Hills	Confined Space Entry	3
11/11/93	Spring Hill	Back Fitness	13
12/93	Lehigh	Air Pac (Breathing) Training	3
12/93	Venice Gardens	CPR	14
12/6/93	Spring Hill	Back Power	9

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**SOUTHERN STATES UTILITIES
1994 SAFETY TRAINING SUMMARY**

As of: November 21, 1994

<u>DATE</u>	<u>LOCATION</u>	<u>TOPIC/S</u>	<u>DURATION</u>	<u>NO. OF ATTENDEES</u>
1/10	Spring Hill	Back Power - Muscle Maintenance	1 hr	12
1/11	Lehigh Acres	Air Pac Training	1 hr	4
1/14	Martin County	Electrical Safety	1 hr	5
1/14	Apopka	Traffic Work Zone Safety	1 hr	13
2/2	SSU	Chain Saw Safety	1 hr	1
2/14	Spring Hill	Back Power - Back Homework	1 hr	13
2/16	SSU	Hearing Loss Prevention	1 hr	1
2/23	Deltona	Seat Belts & Vehicle Safety	1 hr	36
2/23	Marco Island	Excavations & Trenching, competent Person Training	1 hr	4
2/25	Apopka (Engineering)	Seat Belts	3/4 hr	4
2/25	Apopka	Minimizing Back Strain	1 hr	16
3/9	SSU	Scaffolding	1 hr	1
3/15	Lehigh Acres	General Safety	1 hr	4
3/16	Spring Hill	Human Factors & Safety 10 Most Common Hazards	1 hr	12
3/23	SSU	Respiratory Protection	1 hr	1

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SOUTHERN STATES UTILITIES
1994 SAFETY TRAINING SUMMARY (CONTINUED)

<u>DATE</u>	<u>LOCATION</u>	<u>TOPIC/S</u>	<u>DURATION</u>	<u>NO. OF ATTENDEES</u>
3/25	Apopka (Engineering)	Emergency Planning	3/4 hr	12
3/25	Apopka	Basic First Aid	1 hr	23
3/?	Lehigh Acres	Air Pac Training	1 hr	4
3/?	Lehigh Acres	Aztec Company New Commutator Training	1 hr	3
4/18	Apopka	CPR	4 hr	15
4/25	Apopka	First Aid	4 hr	16
4/27	SSU	Warning Labels & Material Safety Data Sheets	1 hr	1
4/29	Spring Hill	Injuries	1 hr	9
4/29	Apopka (Engineering)	Stress and Safety	3/4 hr	28
5/3	Spring Hill	How to Avoid Accidents	1 hr	13
5/4	Jacksonville	Risk Management & Loss Control	2.5 hr	20
5/11	Deltona	Risk Management & Loss Control	2.5 hr	25
5/18	Brooksville	Risk Management & Loss Control	2.5 hr	23

SOUTHERN STATES UTILITIES
1994 SAFETY TRAINING SUMMARY (CONTINUED)

<u>DATE</u>	<u>LOCATION</u>	<u>TOPIC/S</u>	<u>DURATION</u>	<u>NO. OF ATTENDEES</u>
5/20	Deltona (construction)	Back Supports/Safety	1 hr	5
5/23	Deltona (Bristol Ct)	Back Supports/Safety	1 hr	4
5/24	Lehigh Acres	Chemical Safety	1 hr	6
5/24	Amelia Island	Gas Detector Operation	1 hr	6
5/25	Deltona Wastewater Facility	Back Supports/Safety	1 hr	7
5/25	Apopka	Risk Management & Loss Control	2.5 hr	35
5/26	Lehigh Acres	Risk Management & Loss Control	2.5 hr	35
5/27	Apopka (Engineering)	Safety in the Office	3/4 hr	21
5/27	Apopka	Safety Attitude "There are Choices"	1 hr	14
5/?	Lehigh Acres	Madison Electric Emergency Generator Transfer Switching	1 hr	3
5/?	Marco Island	Mueller Corp. - Stops & Fastening Machines	1 hr	2

SOUTHERN STATES UTILITIES
1994 SAFETY TRAINING SUMMARY (CONTINUED)

<u>DATE</u>	<u>LOCATION</u>	<u>TOPIC/S</u>	<u>DURATION</u>	<u>NO. OF ATTENDEES</u>
6/1	Venice Gardens	Risk Management & Loss Control	2.5 hr	14
6/3	SSU	Driving Safety	1 hr	1
6/7	Spring Hill	Job Safety Orientation	1 hr	11
6/14	Apopka	New Employee Safety Orientation	.5 hr	17
6/17	Apopka	Bloodborne Pathogens	1 hr	17
6/21	Lehigh Acres	Air Pac Training, General Safety	1 hr	4
6/24	Apopka (Engineering)	Heat Stress	3/4 hr	17
6/24	Apopka	Heat Stress	1 hr	16
6/29	SSU	Fire Prevention	1 hr	1
7/13	Spring Hill	Chemical Safety	1 hr	13
7/29	Apopka (Engineering)	Repetitive Motion Injuries	3/4 hr	22
7/29	Apopka	Chlorine Safety	1 hr	15
8/2	SSU	Hurricane Safety	1 hr	1
8/3	Spring Hill	Heat Stress	1 hr	13
8/16	Lehigh Acres	General Safety	1 hr	3

SOUTHERN STATES UTILITIES
1994 SAFETY TRAINING SUMMARY (CONTINUED)

<u>DATE</u>	<u>LOCATION</u>	<u>TOPIC/S</u>	<u>DURATION</u>	<u>NO. OF ATTENDEES</u>
8/19	Apopka	Training for the Safety Trainer	6.0 hr	6
8/25	Apopka (Engineering)	Chemical Safety	3/4 hr	15
9/7	SSU	Confined Space	1 hr	2
9/12	Spring Hill	Accident Reporting and Investigation	1 hr	17
9/15	Apopka	New Employee Safety Orientation, Hazard Communication/ Right-to-Know	1 hr	19
9/15	SSU	Chlorine Handling	1 hr	1
9/20	Apopka (2 Classes)	Hazard Communication/Right-to-Know, Drug Awareness	1.5 hr 1.5 hr	34
9/22	Apopka (2 Classes)	Hazard Communication/Right-to-Know, Drug awareness	1.5 hr 1.5 hr	40
9/23	Apopka (2 Classes)	Hazard Communication/Right-to-Know, Drug Awareness	1.5 hr 1.5 hr	41
9/27	Deltona (2 Classes)	Hazard Communication/Right-to-Know, Drug Awareness	1.5 hr 1.5 hr	47
9/28	SSU	Confined Space Entry	1 hr	1
9/29	University Shores	Hazard Communication/Right-to-Know, Drug awareness	1.5 hr 1.5 hr	11

SOUTHERN STATES UTILITIES
1994 SAFETY TRAINING SUMMARY (CONTINUED)

<u>DATE</u>	<u>LOCATION</u>	<u>TOPIC/S</u>	<u>DURATION</u>	<u>NO. OF ATTENDEES</u>
9/30	Apopka (Engineering)	Back Injury Prevention	3/4 hr	21
9/30	Apopka	Fire Hydrant Safety	1 hr	16
10/4	Amelia Island	Hazard Communication/Right-to-Know, Drug Awareness	1.5 hr 1.5 hr	11
10/4	Sunny Hills	Hazard Communication/Right-to-Know, Drug awareness	1.5 hr 1.5 hr	3
10/5	Jacksonville (2 Classes)	Hazard Communication/Right-to-Know, Drug Awareness	1.5 hr 1.5 hr	16
10/5	Marco Island	Fastener Safety	1 hr	5
10/6	Pomona Park	Hazard Communication/Right-to-Know, Drug awareness	1.5 hr 1.5 hr	7
10/10	Spring Hill	Office Safety	1 hr	8
10/11	Spring Hill	Working Safely in Traffic	1 hr	11
10/12	Spring Hill	Working Safely in Traffic	1 hr	10
10/12	Marion Oaks	General Safety, Life line Retrieval Line and Tripod	1.0 hr	9
10/18	Sugar Mill Woods	Working Safely in Traffic	1 hr	5
10/13	Martin County	Hazard Communication/Right-to-Know, Drug Awareness	1.5 hr 1.5 hr	4

SOUTHERN STATES UTILITIES
1994 SAFETY TRAINING SUMMARY (CONTINUED)

<u>DATE</u>	<u>LOCATION</u>	<u>TOPIC/S</u>	<u>DURATION</u>	<u>NO. OF ATTENDEES</u>
10/25	Marco Island (2 Classes)	Hazard Communication/Right-to-Know, Drug Awareness	1.5 hr 1.5 hr	33
10/26	Lehigh Acres (2 Classes)	Hazard Communication/Right-to-Know, Drug Awareness	1.5 hr 1.5 hr	37
10/29	Apopka (Engineering)	Fire Safety	3/4 hr	16
11/1	Seaboard	Hazard Communication/Right-to-Know, Drug Awareness	1.5 hr 1.5 hr	5
11/1	Lakeland	Hazard Communication/Right-to-Know, Drug Awareness	1.5 hr 1.5 hr	3
11/4	Apopka	Safety Plan/New Safety Procedures (Quarterly Managers Meeting)	.5 hr	42
11/8	Apopka (make-ups)	Hazard Communication/Right-to-Know, Drug Awareness	1.5 hr 1.5 hr	23
11/8	Spring Hill-Palm Terrace	Safety Awareness ("That Moment in Time")	.5 hr	22
11/9	Apopka (make-ups)	Hazard Communication/Right-to-Know, Drug Awareness	1.5 hr 1.5 hr	14
11/9	Spring Hill	Safety Awareness ("That Moment in Time")	.5 hr	13
11/10	Apopka (make-ups) (2 Classes)	Hazard Communication/Right-to-Know, Drug Awareness	1.5 hr 1.5 hr	19

SOUTHERN STATES UTILITIES
1994 SAFETY TRAINING SUMMARY (CONTINUED)

<u>DATE</u>	<u>LOCATION</u>	<u>TOPIC/S</u>	<u>DURATION</u>	<u>NO. OF ATTENDEES</u>
11/14	Marco Island	Publix Back Support Video, Causes & Care of Accute Back Pain	1 hr	7
11/15	Marion Oaks	Hazard Communication/Right-to- Know, Drug Awareness	1.5 hr 1.5 hr	16
11/15	Spring Hill- Sugar Mill Woods	Safety Awareness ("That Moment in Time")	.5 hr	5
11/16	Marco Island	Heat Stress, Back Injury Prevention	1 hr	11
11/16	Citrus Springs (2 Classes)	Hazard Communication/Right-to- Know, Drug Awareness	1.5 hr 1.5 hr	13
11/17	Spring Hill (2 Classes)	Hazard Communication/Right-to- Know, Drug Awareness	1.5 hr 1.5 hr	41
11/18	Apopka (Engineering)	Vacation/Holiday Safety	1 hr	14
12/13	Apopka	New Employee Safety Orientation, Hazard Communication/ Right-to-Know	1 hr	TBD
12/16	Apopka (Engineering)	Automobile Safety	3/4 hr	TBD

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**SOUTHERN STATES UTILITIES
1995 SAFETY TRAINING SUMMARY**

As of: June 23, 1995.

<u>DATE</u>	<u>LOCATION</u>	<u>TOPIC/S</u>	<u>DURATION</u>	<u>NO. OF ATTENDEES</u>
1/10	Spring Hill	The Case for Safety (Motivational)	.5 hr	24
1/17	Sugar Mill Woods	The Case for Safety (Motivational)	.5 hr	5
1/17	Amelia Island	SSU Safety Plan, Bloodborne Pathogens, Respiratory Protection (Part 1)	2.5 hr	7
1/17	Seaboard	First Aid	1.0 hr	4
1/18	Woodmere (2 Classes)	SSU Safety Plan, Bloodborne Pathogens, Respiratory Protection (Part 1)	2.5 hr 2.5 hr	7 4
1/24	Citrus Springs	Confined Space Permits	1.0 hr	10
1/26	Deltona (2 Classes)	SSU Safety Plan, Bloodborne Pathogens, Respiratory Protection (Part 1)	2.5 hr 2.5 hr	23 19
1/27	Lehigh Acres	Electrical Panel Boxes	.5 hr	4
1/27	Apopka (Engineering)	Office Safety	.5 hr	23
1/31	Seaboard	SSU Safety Plan, Bloodborne Pathogens, Respiratory Protection (Part 1)	2.5 hr	4
1/31	Lakeland	SSU Safety Plan, Bloodborne Pathogens, Respiratory Protection (Part 1)	2.5 hr	2
2/1	University Shores	SSU Safety Plan, Bloodborne Pathogens, Respiratory Protection (Part 1)	2.5 hr	11
2/1	Lehigh Acres	Backhoe Operations	.5 hr	6

**SOUTHERN STATES UTILITIES
1995 SAFETY TRAINING SUMMARY (CONTINUED)**

<u>DATE</u>	<u>LOCATION</u>	<u>TOPIC/S</u>	<u>DURATION</u>	<u>NO. OF ATTENDEES</u>
2/2	Apopka (Corporate Services)	Office Ergonomics	.25 hr	18
2/2	Pomona Park	SSU Safety Plan, Bloodborne Pathogens, Respiratory Protection (Part 1)	2.5 hr	5
2/3	Lehigh Acres	Scaffold Safety	.5 hr	4
2/8	Marco Island (2 Classes)	SSU Safety Plan, Bloodborne Pathogens, Respiratory Protection (Part 1)	2.5 hr 2.5 hr	16 12
2/9	Lehigh Acres (2 Classes)	SSU Safety Plan, Bloodborne Pathogens, Respiratory Protection (Part 1)	2.5 hr 2.5 hr	16 15
2/10	Apopka (Operations)	Safety Plan	1.0 hr	15
2/10	Lehigh Acres	Manhole Entry, Use of Ladders	.5 hr	4
2/14	Spring Hill	Stress and Safety	.5 hr	32
2/14	Lehigh Acres	Gasoline Handling Safety	.5 hr	4
2/14	Sugar Mill Woods	Stress and Safety	.5 hr	5
2/14	Leilani Heights	SSU Safety Plan, Bloodborne Pathogens, Respiratory Protection (Part 1)	2.5 hr	5
2/15	Lehigh Acres	Hearing & Sight Protection	.25 hr	6
2/15	Apopka (Make-up)	SSU Safety Plan, Bloodborne Pathogens, Respiratory Protection (Part 1)	2.5 hr	3

**SOUTHERN STATES UTILITIES
1995 SAFETY TRAINING SUMMARY (CONTINUED)**

<u>DATE</u>	<u>LOCATION</u>	<u>TOPIC/S</u>	<u>DURATION</u>	<u>NO. OF ATTENDEES</u>
2/17	Lehigh Acres (Wastewater Plant)	Safety Equipment/Rescue	.5 hr	4
2/20	Lehigh Acres	Heavy Equipment Safety (Front end Loaders)	.5 hr	4
2/20	Seaboard	Vehicle Accident Reporting	1.0 hr	4
2/21	Citrus Springs	Confined Space Equipment, Gas Detector Tripod, SCBA, and Fall Protection	1.0 hr	10
2/21	Marion Oaks	SSU Safety Plan, Bloodborne Pathogens, Respiratory Protection (Part 1)	2.5 hr	14
2/21	Lehigh Acres	Workzone Traffic Control	.5 hr	6
2/22	Citrus Springs	SSU Safety Plan, Bloodborne Pathogens, Respiratory Protection (Part 1)	2.5 hr	11
2/23	Spring Hill (2 Classes)	SSU Safety Plan, Bloodborne Pathogens, Respiratory Protection (Part 1)	2.5 hr 2:5 hr	14 14
2/24	Apopka (Operations)	Respiratory Protection	1.0 hr	13
2/24	Apopka (Engineering)	Stress Management	.5 hr	23
2/24	Lehigh Acres	Traffic Workzone Safety	.25 hr	4
2/28	Woodmere	Confined Space Entry Equipment	.5 hr	8

**SOUTHERN STATES UTILITIES
1995 SAFETY TRAINING SUMMARY (CONTINUED)**

<u>DATE</u>	<u>LOCATION</u>	<u>TOPIC/S</u>	<u>DURATION</u>	<u>NO. OF ATTENDEES</u>
3/2	Lehigh Acres	Back Injury Prevention, Lifting Techniques	.5 hr	3
3/3	Marco Island	Back Injury Prevention, Lifting Techniques	.5 hr	11
3/3	Lehigh Acres	General First Aid	.25 hr	4
3/6	Lehigh Acres	Protective Clothing	.5 hr	4
3/6	Spring Hill	Near Misses	.5 hr	31
3/7	Sunny Hills	SSU Safety Plan, Bloodborne Pathogens, Respiratory Protection (Part 1)	2.5 hr	3
3/8	Lehigh Acres	Back Injury Prevention, Lifting Techniques	.5 hr	6
3/13	Marco Island	Traffic Workzone Safety	.5 hr	4
3/14	Apopka (Make-up)	SSU Safety Plan, Bloodborne Pathogens, Respiratory Protection (Part 1)	2.5 hr	6
3/14	Sugar Mill Woods	Near Misses	.5 hr	5
3/14	Lehigh Acres	Child Safety Supervision	.5 hr	4
3/15	Lehigh Acres	First Aid	.5 hr	6
3/15	Lehigh WWTP	First Aid	.5 hr	5
3/17	Marco Island	Excavation Safety	.5 hr	13

**SOUTHERN STATES UTILITIES
1995 SAFETY TRAINING SUMMARY (CONTINUED)**

<u>DATE</u>	<u>LOCATION</u>	<u>TOPIC/S</u>	<u>DURATION</u>	<u>NO. OF ATTENDEES</u>
3/20	Lehigh Acres	The Hazard of Horseplay	.5 hr	5
3/20	Lehigh WWTP	Lifting Techniques	.5 hr	5
3/21	Citrus Springs	Confined Spaces, Electrical Safety	1.0 hr	8
3/22	Lehigh Acres	First Aid	.5 hr	7
3/22	Deltona (2 Classes)	Chlorine Safety	2.5 hr 2.5 hr	12 10
3/22	Woodmere	CPR & First Aid	.5 hr	
3/22	Seaboard	Computer Safety	.5 hr	5
3/23	Apopka (Qtrly Mngrs Mtg)	Safety Motivational (Video: The Safety Secret)	.5 hr	44
3/24	Lehigh WWTP	First Aid for Eye Emergencies	.5 hr	6
3/27	Marco Island	Video: "A Life Saving Experience"	.75 hr	8
3/28	Apopka (Safety Training Reps.)	Training the Safety Trainer	6.0 hr	16
3/29	University Shores	Chlorine Safety, Handling	1.5 hrs	8
3/31	Apopka (Operations)	Safety Motivational (Video: The Safety Secret)	.75 hr	12
3/31	Apopka (Engineering)	Bloodborne Pathogens	1.0 hr	23

**SOUTHERN STATES UTILITIES
1995 SAFETY TRAINING SUMMARY (CONTINUED)**

<u>DATE</u>	<u>LOCATION</u>	<u>TOPIC/S</u>	<u>DURATION</u>	<u>NO. OF ATTENDEES</u>
3/31	Marco Island	Shoring and Trenching	.75 hr	8
3/31	Lehigh WWTP	Fire Extinguishers	.5 hr	6
4/04	Lehigh WTP	"Percentages Have a Point"	.5 hr	4
4/4-5	Spring Hill	Emergency Evacuation Procedures	.5 hr	33
4/05	Fern Terrace	Lockout/Tagout, Confined Space Entry, Heat Stress	2.5 hr	5
4/06	Marco Island	Basic Electrical Safety, Lockout/Tagout	.5 hr	12
4/07	Lehigh WWTP	Sunstroke	.5 hr	7
4/11	Seaboard	On the Job Injuries	.5 hr	7
4/12	Lake Gibson	On the Job Injuries	.5 hr	4
4/12	University Shores	Lockout/Tagout, Confined Space Entry, Heat Stress	2.5 hr	8
4/12	Lehigh WTP	First Aid for Infections	.5 hr	5
4/14	Marco Island	"The Key to Safety"	.5 hr	9
4/17	Lehigh WWTP	Personal Protective Equipment	.5 hr	7
4/17	Deltona (Laboratory)	General Lab Safety	.5 hr	4

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**SOUTHERN STATES UTILITIES
1995 SAFETY TRAINING SUMMARY (CONTINUED)**

<u>DATE</u>	<u>LOCATION</u>	<u>TOPIC/S</u>	<u>DURATION</u>	<u>NO. OF ATTENDEES</u>
4/17-18	Keystone Heights	Hazardous Materials Incidents/ Response Procedures	8 hr	4
4/18	Deltona Lakes (2 Classes)	Lockout/Tagout, Confined Space Entry, Heat Stress	2.5 hr 2.5 hr	13 14
4/19	Lehigh WTP	Drug Abuse	.5 hr	8
4/21	Marco Island	General Safety	.5 hr	11
4/24	Lehigh Acres WTP	"The Don'ts of First Aid"	.5 hr	5
4/24	Sugar Mill Woods	Emergency Evacuation Procedures	.5 hr	5
4/25	Citrus Springs	Heat Stress, Bloodborne Pathogens	.5 hr	7
4/26	Marco Island (2 Classes)	Lockout/Tagout, Confined Space Entry, Heat Stress	2.5 hr 2.5 hr	17 9
4/27	Lehigh Acres (2 Classes)	Lockout/Tagout, Confined Space Entry, Heat Stress	2.5 hr 2.5 hr	15 7
4/28	Marco Island	Defensive Driving, Speed Limits	.5 hr	11
4/28	Apopka (Information Systems)	Office Ergonomics	.25 hr	12
4/28	Lehigh Acres WWTP	Vehicle Safety	.5 hr	7
4/28	Woodmere	Truck Safety	.5 hr	4
5/02	Putnam County	Safety Inspection Report	.75 hr	4

SOUTHERN STATES UTILITIES
1995 SAFETY TRAINING SUMMARY (CONTINUED)

<u>DATE</u>	<u>LOCATION</u>	<u>TOPIC/S</u>	<u>DURATION</u>	<u>NO. OF ATTENDEES</u>
5/02	Marion Oaks	Lockout/Tagout, Confined Space Entry, Heat Stress	2.5 hr 2.5 hr	11
5/03	Citrus Springs	Lockout/Tagout, Confined Space Entry, Heat Stress	2.5 hr 2.5 hr	9
5/04	Spring Hill (2 Classes)	Lockout/Tagout, Confined Space Entry, Heat Stress	2.5 hr 2.5 hr	12 17
5/08	Lehigh Acres WTP	Stepladder Safety	.5 hr	5
5/09	Marco Island	Heat Stress Management	.5 hr	13
5/10	Lehigh Acres WWTP	Protecting Children by Securing Equipment & Hazards of Horseplay	.5 hr	6
5/10	Seaboard	Lockout/Tagout, Confined Space Entry, Heat Stress	2.5 hr	6
5/10	Woodmere	General Safety	.5 hr	5
5/12	Marco Island	Working with Hazardous Materials	.5 hr	9
5/15	Lehigh WTP	Tool Safety - "Watch Those Wrenches"	.5 hr	5
5/15	Lehigh WWTP	Front End Loader Safety	.5 hr	4
5/16	Martin County	Lockout/Tagout, Confined Space Entry, Heat Stress	2.5 hr	4
5/17	Amelia Island	Communicating for Safety	1.0 hr	6

**SOUTHERN STATES UTILITIES
1995 SAFETY TRAINING SUMMARY (CONTINUED)**

<u>DATE</u>	<u>LOCATION</u>	<u>TOPIC/S</u>	<u>DURATION</u>	<u>NO. OF ATTENDEES</u>
5/22	Marco Island	Accident Reporting and Investigation	.5 hr	6
5/23	Deep Creek	Handling Heat Stress	.5 hr	3
5/25	Burnt Store	Proper Removal of Manhole Covers	.25 hr	4
5/26	Marco Island	Heat Stress	.5 hr	15
5/26	Apopka (Operations)	Lockout/Tagout, Confined Space Entry, Heat Stress	2.5 hr	14
5/26	Apopka (Engineering)	Stress and Safety	.5 hr	27
5/30	Keystone Heights	Pre-Job Safety Checklist	.25 hr	4
5/30	Lehigh WTP	Hand Tool Safety	.5 hr	5
5/31	Citrus Springs	Employee Right-to-Know	.5 hr	10
5/31	Sunny Hills	Lockout/Tagout, Confined Space Entry, Heat Stress	2.5 hr	3
6/2	Marco Island	Safety app; the Weather	.5 hr	10
6/5	Lehigh Acres WWTP	Workplace Housekeeping	.5 hr	5
6/6	Amelia Island	Lockout/Tagout, Confined Space Entry, Heat Stress	2.5 hr	6
6/7	Lehigh Acres WWTP	Accident Statistics	.25 hr	6

**SOUTHERN STATES UTILITIES
1995 SAFETY TRAINING SUMMARY (CONTINUED)**

<u>DATE</u>	<u>LOCATION</u>	<u>TOPIC/S</u>	<u>DURATION</u>	<u>NO. OF ATTENDEES</u>
6/6	Lehigh Acres WTP	Fire Extinguishers	.5 hr	5
6/6	Spring Hill	Safety Signs	.5 hr	18
6/7	Jacksonville (2 Classes)	Lockout/Tagout, Confined Space Entry, Heat Stress	2.5 hr	4 5
6/8	Pomona Park	Lockout/Tagout, Confined Space Entry, Heat Stress	2.5 hr	6
6/13	Apopka	New Employee Safety Orientation	1.0 hr	16
6/13	Fl. Cent. Comm. Pk.	Near Misses	.5 hr	2
6/13	Sugar Mill Woods	Safety Signs	.5 hr	4
6/14	Lehigh Acres	First Aid for Infections, & First Aid "Do's & Don'ts"	.25 hr	6
6/16	Lehigh Acres WTP	Handout - 3 Strikes & You're Out	.5 hr	4
6/19	Marco Island	Personnel Protective Equipment, Safety Goggles, & the Hazard of Loose Clothing Around Machinery	.5 hr	15

TOTAL MANHOURS DOCUMENTED: 1,647.5

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