Young, van Assenderp, Varnadoe & Benton, P. A. ATTORNEYS AT LAW

REPLY TO:

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Tallahassee

October 27, 1989

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Mr. Steve C. Tribble, Director Division of Records and Reporting Florida Public Service Commission 101 East Gaines Street Tallahassee, Florida 323091

> Tampa Electric Company vs. Florida Power Corporation PISC Docket No.: 899646-BI

Dear Mr. Tribble:

Enclosed for filing in the above docket are the original and fifteen (15) copies of Prepared Direct Testimony of Don R. Morrow; Bruce C. Kelsey; Kenneth R. BuShea, P.E.; and Graeme R. Addie, , P.E.

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AGRICO CHEMICAL COMPANY BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION DOCKET NO. 890646-EI

IN RE: PETITION OF TAMPA ELECTRIC COMPANY FOR RESOLUTION OF TERRITORIAL DISPUTE WITH FLORIDA POWER CORPORATION

Testimony of
Don Morrow

October 27, 1989

DOCUMENT NUMBER-CATE

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BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION AGRICO CHEMICAL COMPANY DIRECT TESTIMONY OF DON MORROW DOCKET NO. 890646-EI OCTOBER 27, 1989

Q. Please state your name and address.

- My name is Don Morrow. My address is 5325 Glenmore Drive,
 Lakeland, Florida: 3813.
 - Q. What is your background and experience?
 - A. I was graduated from the University of Pittsburgh with a Bachelor of Science degree in Mining Engineering and completed Harvard University's Advanced Management Program.

 I have been employed by Agrico Chemical Company for the past 15 years in the capacities of technical manager, production manager, general manager, vice president of Florida Operations, and senior vice president of Florida Operations.

Prior to employment with Agrico, I worked in various management and engineering capacities for Texaco, Pacific

Q. Briefly state your responsibilities at Agrico.

- A. I am responsible for Agrico's Fort Green Mine, Payne Creek Mine, the South Pierce Chemical Plant, Agrico's railroad, which joins these facilities, and the Big Bend Terminal. In addition, I am responsible for Agrico's share of the joint-venture U.S. Agri-chemicals (USAC) mine, which is managed and operated by USAC.
- Q. Have you prepared any exhibits related to your testimony?
- A. Yes. I have attached Exhibit _____, DRM-1, "Current Phosphate Mines That Cross Territorial Boundaries," Exhibit _____, DRM-2, "Fort Green Mine", and Exhibit _____, DRM-3, "Areas Mined by Agrico in FPC's territory Using Power Purchased from TECO." These exhibits were prepared under my supervision.
- Q. Would you describe the phosphate industry and how it relates to the public utility industry?
- A. The phosphate industry is made up of 14 companies, which

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operate 13 chemical plants and 21 mines within the state of Florida. The industry is located in Polk, Hillsborough, Hardee, Manatee, and Hamilton counties. The industry owns over 840 square miles of land in the state, employs approximately 10,000 employees directly. and creates employment for approximately 50,000 employees indirectly. The annual payroll of the phosphate industry approximately \$350 million, and the industry spends about \$1.8 billion on supplies anđ services, approximately \$140 million is spent to purchase electrical The industry pays approximately \$100 million per year in state and local taxes.

phosphate industry is served by Florida Power Corporation (FPC), Tampa Electric Company (TECO), and Florida Power & Light (FPL). Of the 21 phosphate mines in Florida, TECO is currently delivering power to 10, FPC is delivering power to 10, and FPL delivers power to 1. Also, 7 of the 21 mines are located in areas where a least a portion of their lands crosses the utilities! territorial boundaries and power purchased from one of the utilities has been and is being used in another utilities' territorial area. This is illustrated in Exhibit DRM-1.

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Agrico Chemical Company operates the South Pierce Chemical Plant, the Fort Green Mine, the Payne Creek Mine, a railroad connecting these facilities, and the Big Bend Terminal. Agrico also has a 50 percent ownership in the USAC mine, which is managed and operated by USAC personnel. These facilities are located in Polk, Hillsborough, Hardee, and Manatee County. Agrico has about 900 employees, an annual payroll of \$34 million, spends about \$74 million for supplies and services, of which about \$24 million is for electrical power, and pays \$12 million in state and local Until March of 1989, power to all of Agrico's facilities was purchased from TECO. In March 1989 at Agrico's request FPC built a transmission line and metering station in FPC's service area to supply a portion of Agrico's Fort Green Mine.

Q. Would you describe how a typical phosphate mine operates?

A typical phosphate mine is planned and operated as an integrated facility. The major facilities consist of one or more draglines which move about the entire area of the mine to excavate the ore; the interconnected pipelines and pumps which transport the ore from the area being mined to

the processing plant; and the processing plant.

The draglines are large machines that remove the topsoil ("overburden") and dig the ore from the ground.

Typically, phosphate ore is found about 15-50 feet beneath the surface. The dragline first removes the sand and clay overburden material in order to expose the phosphate ore which is called "matrix". The draglines then mine the matrix and place it in a pit where it is made into a slurry by impinging it wi:h high-pressure water. The slurry is picked up by the suction pipe of a large pump and then pumped through a pipeline from the location of the dragline to the processing plant. These pipelines can be from one to ten miles long. Large booster pumps are placed along the pipeline at intervals of approximately every 3,000 to 4,000 feet in order to provide sufficient power to maintain the velocity of the slurry within the pipeline. velocity is necessary in order to keep solids in suspension.

Upon reaching the processing plant the matrix is washed and screened in order to separate large phosphate particles called "pebble" from the remainder of the matrix which consists of sand, clay and fine phosphate particles. The clay is then removed from the matrix by hydrocyclones and deposited in large clay settling areas. The remaining

matrix consists of fine phosphate particles and sand. The fine phosphate particles are separated and recovered in a froth flotation process. Both the pebble and the fine phosphate particles are saleable products. After processing is completed, the sand which remains is then pumped back to the mining area to fill in the mine cut and the clay which is suspended in water is pumped to a clay settling pond.

A phosphate slurry pipeline is a large, powerful system. The pipelines are usually 20 inches in diameter and each pump is driven by a 1,250-hp electric motor. Because pumping is a major expense, the processing plant is normally located at the centroid of the mine property in order to minimize pumping distances.

- Q. Would you describe the Fort Green Hine and its power supply arrangements?

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Hardee County, which lies within FPC's territorial boundaries; and about 4 square miles are located in Manatee County, within FPL's territorial boundaries. To my knowledge, Fort Green Mine is the only mine that spans the territorial areas of three utilities; however, other mines span the territorial areas of two utilities.

The Fort Green Mine is one of the largest phosphate mines in Florida, producing about 4 million tons a year. Approximately 200 employees are located at this mine and are supported by a staff 80 of employees for administration, environmental control, reclamation, human relations, engineering, and planning. Agrico's annual cost to purchase power for this mine is approximately \$10 million.

The Fort Green Mine began operations in March 1975. At that time all of the mining and most of the minable reserves were located in Polk County (TECO's territory). Accordingly, based on the economics of pumping the then minable reserves, the processing plant was centrally located within the mine in Polk County. Since 1975, substantial additional reserves have been acquired in Hardee and Manatee Counties and mining activities have progressed into Hardee County. In fact, in 1979 (10 years

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ago), the first dragline was moved into Hardee County, which is FPC's territory. Most of the minable reserves in Polk County have already been mined; in fact, as of March 1, 1989, only 2,990 acres out of an original total of 9,120 acres remain to be mined in Polk County. In the last 10 years, without objection from anyone, we have mined 2,265 acres in Hardee County within FPC's territory using power purchased from TECO.

Since March 1, 1989, electricity for Fort Green has been supplied by both TECO and FPC. Prior to that all the electricity was supplied by TECO. Both utility companies supply interruptible service to the Fort Green Mine. delivers power at 69,000 volts to two separate metering stations at the Fort Green Mine. One lies in the northern part of the Polk County property and provides power that Agrico uses to operate its No. 13 dragline and pumping system. The main metering station is located close to the processing plant. Agrico takes ownership of the power at the metering stations and, using its own transformers, transforms the power to either 13,000 or 34,000 volts. Agrico carries the 13,000 volt power on distribution lines to the processing plant-where it is reduced to 4,000, 480, 240 or 120 volts to operate the equipment in the plant. The 34,000 volt electricity is

carried on Agrico's lines throughout the entire mining area and is eventually reduced in Agrico's substations to 4,000 480, 240, 120 volts depending on the need of the equipment. All of the power transformers and all of the distribution polelines are owned and operated by Agrico and all of the three permanent and twelve skid-mounted mobile substations used at Fort Green are owned by Agrico and are constructed and moved by Agrico.

Since Agrico's draglines move continuously, Agrico is continuously relocating its internal distribution system. Agrico has complete responsibility and liability for the use of the power beyond the metering station. The handling of this power by Agrico must comply with the National Electric Code and the National Electric Safety Code as well as the Mine Safety and Health Administration (MSHA). The mire is inspected at least twice a year by MSHA, and a major portion of this inspection involves the proper and safe manner in which Agrico transforms and distributes power.

- Q. Would you, in your words, outline the issue of the complaint filed by TECO regarding the Fort Green Mine?
- A. This dispute arose when Agrico contacted TECO to advise

them that Agrico had asked FPC, and FPC had agreed, to provide service for the Fort Green Mine at an Agrico owned substation located within FPC's territorial area in Hardee County. Agrico advised TECO that we intended to use power purchased from FPC throughout the Fort Green Mine. Service would be commenced in March 1989 for the draglines and their associated pipelines, but due to the time necessary to obtain the materials for construction of a 69,000 kv line from our substation in Hardee to our processing plant, we anticipated a final cessation of TECO service about the end of 1989. We told TECO of our plans so that they could factor these matters into their planning. As mentioned above, most of the Fort Green Mine's reserves in Polk County have been mined. The acres remaining to be mined in Polk County are approximately the same as the acres already mined in Hardee County (using TECO power). the acquisition of additional reserves in Hardee County since the mine first opened, our future mining will be predominantly located in Hardee County (FPC's territory). Less investment in electric distribution facilities is required and greater efficiency is achieved when power is received in proximity to actual mining activities. Agrico plans and builds its own distribution facilities it made sense to switch to FPC.

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At Fort Green, all that was required for FPC to provide this service was the construction of a short transmission line to Agrico's property. This transmission line is wholly within FPC's territory and it terminates at a metering station on Agrico's property. As I understand this complaint, TECO does not object to FPC supplying power to Fort Green which is consumed in Hardee County (FPC's territory). TECO only objects to Agrico's intent to distribute the power purchased from FPC across Agrico's distribution facilities into Polk County (TECO's territory) to power Agrico'n processing plant. It should be noted that the converse situation has existed for the past ten years during which Agrico has purchased power from TECO and, without objection from anyone, distributed it into FPC's territory to power mining activities in Hardee County. As mentioned above, most of the Fort Green Mine's reserves in Polk County have been mined. The acres remaining to be mined in Polk County are approximately the same as the acres already mined in Hardee County. estimates that it has paid TECO approximately \$7.4 million for power Agrico purchased from TECO and transmitted into Hardee County to mine the approximately 2,265 acres which have already been mined in FPC's territory. The fact that this is approximately the same number as the number of acres left to be mined in TECO's territory (2,990) may be

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coincidental, but it seems fair under these circumstances for FPC to serve this load.

Similarly, the location of the processing plant was based on the Fort Green Mine reserves at the time the mine was established. Economics dictate that in the future we will move the washing and clay removal portion of the processing plant into Hardee County so that the pebble and the clay can be removed closer to where the mining occurs, thus saving the costs of pumping this material all the way to Polk County. There are no plans currently to move the froth flotation facilities from Polk County since to do so would be prohibitively expensive. Nonetheless. the processing plant location was established before the Hardee and Manatee County reserves were acquired; it will be processing matrix mined in Hardee County; and it seems reasonable to us that FPC provide the power to process matrix mined in its territory.

Not only has TECO benefitted from the \$7.4 million Agrico paid them for power used in FPC's territory at the Fort Green Mine, but TECO has also benefitted by selling power to Agrico which was used to mine 2,440 acres in FPC's territory at Agrico's Payne Creek Mine. In 1987 Agrico moved a dragline at its Payne Creek Mine into Hardee County

to mine 342 acres in FPC territory. Mining in this area was concluded in July 1989. Agrico paid TECO approximately \$800,000 for the power used in this area. During the period between 1970 and 1982 Agrico mined 2,098 acres in its Payne Creek Mine in Polk County that are located in FPC's territory east of the FPC/TECO territorial boundary. Agrico paid TECO approximately \$3.7 million for power used in this area. Over the history of the two mines Agrico has mined 4,705 acres in FPC's territory using power purchased from TECO. This amount of mined acres is equivalent to 6 years of operation at the Fort Green Mine. The areas mined in FPC's territory using power purchased from TECO at both the Fort Green and Payne Creek mines are illustrated in Exhibit _____, DRM-3.

It has been the history of the phosphate industry to have a single source of electricity for an entire mine site and to carry that power on the mine's own power lines throughout the entire mine without regard to territorial boundaries established by the utilities. To the best of my knowledge, the utilities have uniformly acquiesced in this practice. The phosphate industry has always considered that having paid for the electricity at the metering station it owned the power and could use the power where it was needed. This practice is continuing today in

mines owned by Agrico's competitors.

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I think it is important to note that, unlike some controversies in the past, both TECO and FPC are delivering power to Agrico's Fort Green Mine site within their own territorial areas and power is consumed in both territories. The crossing of the territorial boundaries been and iş being done by facilities constructed, moved, and maintained by Agrico. that is actually carried across the utilities' territorial boundaries has already been purchased by Agrico and is being transmitted on Agrico's facilities.

- Q. Why is Agrico not satisfied with using power delivered by FPC within the Hardee County area (PPC's territory) and using power delivered by TECO in the Polk County area (TECO's territory) for its facilities in Polk County?
- A. First, it would place Agrico in double jeopardy for power interruptions. Since a phosphate mine is an integrated, interconnected operation, we would be shut down by power interruptions of both utility companies. Second, it could create a safety problem for us. This requires a somewhat lengthy explanation.

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As mentioned above, the nature of phosphate mining requires that the mine be planned and operated as an integrated For example, phosphate ore is pumped long facility. distances from where it is actually mined to the processing plant. The average distance of Agrico's pipelines today is 4.5 miles. This requires a very large, powerful pumping The pipelines are 20 inches in diameter, the system. booster pumps are 20-inch pumps powered by 1,250-hp motors. Very often the total connected horsepower on these systems will exceed 10,000 hp. These pipelines are very efficient is long as they can be operated without unanticipated shutdowns. At the Fort Green Mine it is necessary for these pipelines to cross territorial boundaries due to the location of mining and the location of the processing plant.

If TECO's position were to be sustained, the pumps on a pipeline serving a dragline operating in Hardee County would have to be powered with electricity purchased from both TECO and FPC since the pumps in Hardee County would be served by FPC, and the pumps in Polk County would be served by TECO. Further, when Agrico mines that portion of the Fort Green Mine reserves located in Manatee County, that single pipeline would have to be served by three utilities since the utilities have agreed that Manatee

County is in Florida Power & Light's territory. But it is all one interconnected pipeline and a disturbance at any point affects the entire pipeline.

The force within these pipelines is provided by very powerful pumps. The pressure provided by the pumps, which is necessary to keep the velocity of the slurry high so the matrix won't settle out and clog the pipeline, makes them susceptible to severe water hammer. Water hammer is a shock wave that can be set off in a system due to a sudden change in velocity of the fluid flowing through it. The shock wave from the water hammer will be transmitted through these long pipelines and often will create sufficient force to blow up pumps.

This phenomenon will not normally occur if all the pumps are shut down simultaneously. For instance, today the power used for each of these connected pipelines is supplied by one utility. If that utility should have an interruption due to lightning, accidents, problems at the utility's plant, and so forth, the entire pipeline would be shut down simultaneously. This causes us problems because we have to restart the pipeline slowly, putting in a lot of extra water and starting each pump individually, in order to get the matrix off the bottom of

the pipeline and moving again. But it usually doesn't cause physical damage to the pipeline and doesn't present a physical hazard to employees. However, if the pumps on a single pipeline were powered with power purchased from more than one utility and one of the utilities had an interruption while the other did not, some of the pumps would continue to operate while others stopped, causing a change in velocity within the pipeline and creating the risk of severe water hammer. Remember, many tons of matrix are moving in the pipeline at any point in time. That moving weight creates a tremendous force.

Water hammer poses a significant safety threat to Agrico's employees as well as an economic threat due to the loss or destruction of Agrico's equipment and the interruption of Agrico's business. Since the possibility of an unexpected power interruption increases proportionately with the number of utilities supplying power, having more than one utility supply power to a mine not only increases the risk that mining operations will be interrupted, but if two sources of power are required to be used for these connected loads, this can be the cause of water hammer.

2. Is there any other reason why Agrico is concerned about having to purchase power from two utilities for its Fort

and the compounding of safety problems, there is the simple matter of having to deal with two suppliers when only one is needed. We have a single, integrated mine and we would prefer to deal with the utility where virtually all of our future mining will take place.

- Q. Are there other lines in the phosphate industry that purchase power from more than one utility?
- A. I have no knowledge of any mines except our Fort Green Mine that purchase power from more than one utility at any particular time. As mentioned above, we do not use power from more than one utility on any of our pipelines and would consider it unsafe to do so. Further, due to the increased risk of having our entire mining operation disrupted by an outage by either utility, it is impractical to continue to have two utilities serve the Fort Green Mine on a long term basis and it is our intent to switch entirely to FPC power upon completion of our 69,000 v line.

Although we do not know of any other mine receiving power

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from two utilities, there are other mines that cross territorial boundaries and are distributing power purchased from one utility into the territory of another utility. As a specific example, IMC Fertilizer's Four Corners Mine is using power purchased from TECO to operate its facilities in Manatee County (FPL's territory). aware of this, and the practice is obviously sanctioned by IMC is transmitting this power on its own 69,000volt lines connected to TECO's transmission approximately 600 feet north of the TECO/FPL territorial boundary. It is then carried approximately 1-1/2 miles into Manatee County (FPL's territory) where it is used for IMC's mining operations.

This is an identical situation in reverse to that which TECO objects to in its Complaint concerning the Fort Green Mine. Agrico intends to carry power purchased from FPC on its own 69,000-volt line approximately 1-1/2 miles into TECO's territory. At Agrico's Payne Creek Mine we have mined an area in Hardee County using power purchased from TECO which we carried into FPC's territory. Also we have mined land in FPC's territory located in Polk County on the east side of the Payne Creek Mine, again using power purchased from TECO.

south TECO/FPC territorial boundary within Polk County. They are Seminole's Hookers Prairie Mine, Estech's Silver City Mine, IMC's Phosphoria Mine, and IMC's Noralyn Mine. Since the property lines of the mine sites are not the same as the territorial boundary lines in the cases I have just cited, it makes good economic sense for the mining companies to carry power across these territorial boundaries. If that is not allowed, not only will the mining companies wave to have some duplicate distribution systems, but the utility companies will have to provide duplicate service even though the amount of area to be mined may not be sufficient to justify that service. my knowledge, there has not been a complaint in the past. In fact, TECO has never expressed any dissatisfaction about Agrico distributing power purchased from TECO across territorial boundaries but is only complaining about Agrico distributing power purchased FPC from into TECO's territory.

There are at least four other mines that cross the north-

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Q. Presently PPC's interruptible rate is cheaper than TECO's interruptible rate; is the real reason you are changing to PPC to get the lower rate?

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A. At this time FPC's rate is lower but there is no guarantee

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that it will continue that way. The comparative history indicates that TECO's rates have predominantly been lower than FPC's. Recently there have been several increases in FPC's rate, which would indicate the gap is closing. Agrico is currently at a competitive disadvantage to other phosphate producers in terms of its electric power rates, but the driving reason for Agrico to change to FPC is that the future mining operations will be in FPC's territory, where our power consumption will increase, while it diminishes in TECO's territory.

In what way is Agrico at a competitive disadvantage to other phosphate producers?

it must be competitive with other phosphate companies. At this particular time there are 10 phosphate mines that purchase power from FPC, whose rates are lower than TECO's. One of these mines (IMC's Phosphoria Mine) is located within TECO's territorial boundaries, and I understand that service to this mine has changed from TECO to FPC and back several times over the life of the mine.

Agrico's Fort Green Mine is one of ten mines served by TECO. Of those 10, three are shut down and one (IMC's

Haynsworth Mine) has announced plans to shut down. All mines served by FPC are operating today. Agrico's largest competitor is IMC's Four Corners Mine, which is the largest mine in the industry. This mine is located in both TECO's and FPL's territories. It is on TECO's service and in the same interruptible service classification as Agrico, but it is purchasing power from TECO at about \$5 per megawatt less than the price for which Agrico can purchase power from TECO. This differential was brought about by TECO's action before the Public Service Commission to establish the supplemental service rider.

The supplemental service rider allows a lower rate for additional power use beyond a base load that occurred 12 months prior to the time a company applies for the supplemental service rider. The Four Corners Mine was shut down for more than a year prior to the time the Public Service Commission approved the supplemental service rider concept, and therefore, all the power it is now consuming qualifies for the SSI service rider, allowing this large mine to enjoy the lower rate on all the power it consumes. In addition, IMC has announced it intends to shut down its Haynsworth Mine and direct that production to the Four Corners Mine, which in effect extends the lower rate to more competing capacity than we experience at this time.

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The supplemental service rider is essentially unavailable to those companies, such as Agrico, that continued to operate their facilities as a reliable consumer compared to mines that were shut down. As a result, not only is Agrico faced with having to compete with mines which purchase their power from FPC at a lower rate, we must compete with mines that are purchasing their power from TECO at a lower rate due to the supplemental service rider. I cannot believe that the intent of the PSC in approving the supplemental service rider was to cause a competitive disadvantage to companies like Agrico.

- Q. What, in your view, are the main issues that this complaint presents to the Public Service Commission?
- I believe the Public Service Commission must focus on and understand the difference between a large, integrated mining operation and the normal, permanently located industrial plant. The Fort Green Mine is a dynamic consumer, where power will be used at a given time in virtually every part of the 55 square miles that the mine represents. Because of the transitory nature of the mining operation, Agrico has invested in its power distribution systems, has its own skilled electrical and

line crews, and is continually maintaining and moving the entire electrical distribution system to fulfill its own needs. If the Fort Green Mine were the typical large, permanent industrial facility, these services would be provided by the utility that delivers the power.

I think it is also important for the Public Service Commission to consider that the power that has been carried and will be taken across the utilities! territorial boundaries is power that has already been purchased by Agrico. Agrico owns the power and has all the responsibility and liability for its consumption. The utility company accepts no responsibility or liability after the metering station where the change of ownership actually occurs. The only power crosses the utilities! territorial boundaries is that which is purchased and owned by Agrico, distributed on Agrico's transformation and distribution system, used only on Agrico's property, handled only by Agrico's employees, and which is the sole responsibility and liability of Agrico.

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I also think it is important for the Public Service Commission to realize that Agrico has not requested power from a utility to be delivered outside the utilities' territorial boundaries. The two utilities deliver power

 within their respective territorial areas at the Fort Green Mine. Once the delivery of the power has been properly made and Agrico has paid the respective utility, then the disposition of the power in its own operations should be left to Agrico. Once the power is purchased, Agrico is the only party accountable for its proper use.

- Q. TECO maintains that if the Commission allows FPC to provide service to Agrico in the present circumstances, other large industrial customers will abandon their points of service with TECO, resulting in a "range war" with other utilities and a "death spiral" of rate increases to its remaining customers. Is that a realistic scenario?
- A. Not at all. TECO's industrial customers would not be affected unless they happened, like Agrico, to have a single, integrated operation that spanned the service areas of two or more utilities. That situation is uncommon and could not represent a large part of TECO's total customer base.
- 2. How is Agrico's situation at Fort Green different from that considered by the Plorida Supreme Court in the case between Plorida Power & Light (PPL) and Lee County Electric Cooperative (LCEC) involving Florida Mining and Materials

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A. There is little similarity. As I understand the Lee County case, FMM was mining at a location completely within the LCEC's territorial area. In fact, it was two miles from FPL's service area. FMM purchased some land within FPL's territorial area so they would have a point of delivery to receive power from FPL. A transmission line was built by FMM from this poin: of delivery to the point of consumption wholly within LCEC's territory. I believe this line was referred to by the Supreme Court (appropriately, in my opinion) as an "extension cord".

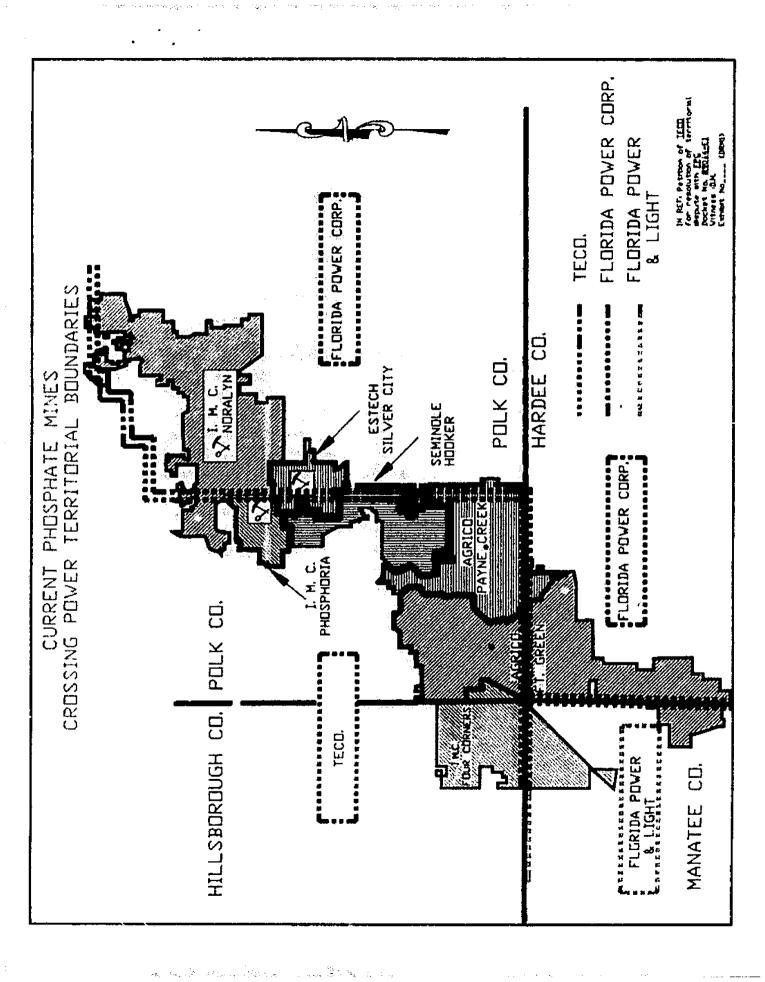
Agrico does not need to construct an "extension cord" transmission line into FPC's territory. The bulk of Agrico's mine, in terms of minable acres of phosphate reserves, is in FPC's territory. The Florida Supreme Court found that FMM's transmission line was a "transparent device" to avoid the territorial agreement between the two utilities. Without intending to express a legal opinion, I am not aware of anything in the territorial agreement between TECO and FPC that would prevent FPC from supplying power to Agrico at Fort Green or require FPC to restrict the use of such power by Agrico in its mining operations.

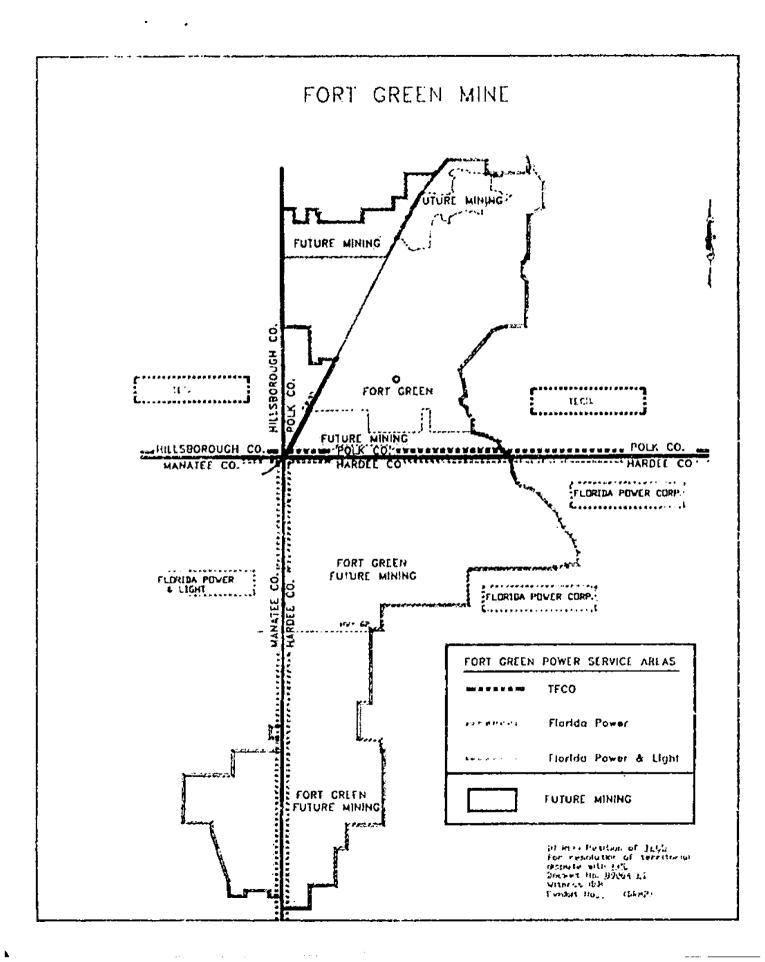
Q. Is there anything you wish to add.

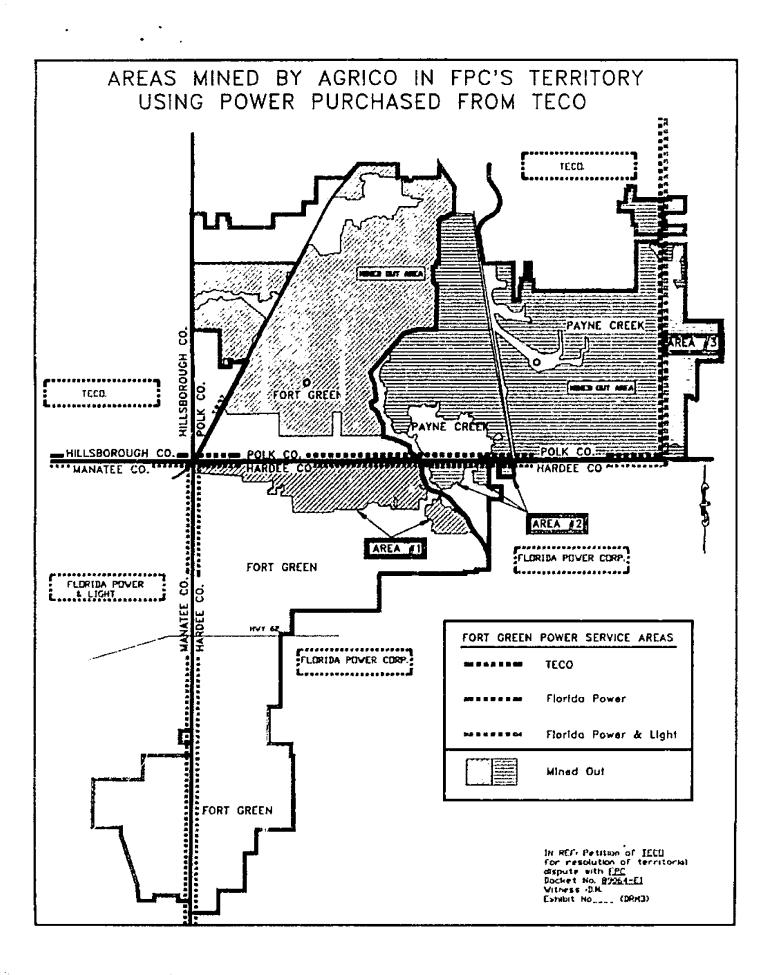
A. I believe the Commission should bear in mind that TECO was content with Agrico's distributing power purchased from TECO into FPC's territory for almost two decades and protested only when Agrico proposed to distribute power purchased from FPC into TECO's territory.

10/27/89

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BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

TAMPA ELECTRIC COMPANY,

Complainant,

vs.

DOCKET NO. 890646-EI

FLORIDA POWER CORPORATION,

Respondent.

CERTIFICATE OF SERVICE

I HEREBY CERTIFY that a true copy of the foregoing Prepared Direct Testimony of Don R. Morrow; Bruce C. Kelsey; Kenneth R. BuShea, P.E.; and Graeme R. Addie, P.E. has been furnished by U.S. Mail to the following parties of record, this 27th day of October, 1989:

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 $(x_1,\dots,x_n) = \operatorname{dist}_{\mathbb{R}^n}(x_1,\dots,x_n) + \operatorname{dist}_{\mathbb{R}^n}(x_1,\dots,x_n) + \operatorname{dist}_{\mathbb{R}^n}(x_1,\dots,x_n) + \operatorname{dist}_{\mathbb{R}^n}(x_1,\dots,x_n)$

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