

BEFORE THE
FLORIDA PUBLIC SERVICE COMMISSION

DOCKET NO. 031033-EI
IN RE: TAMPA ELECTRIC COMPANY'S
2004-2008 WATERBORNE TRANSPORTATION
CONTRACT WITH TECO TRANSPORT AND
ASSOCIATED BENCHMARK

TESTIMONY AND EXHIBIT
OF
BRENT DIBNER
ON BEHALF OF
TAMPA ELECTRIC COMPANY

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1 **BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

2 **PREPARED DIRECT TESTIMONY**

3 **OF**

4 **BRENT DIBNER**

5 **ON BEHALF OF**

6 **TAMPA ELECTRIC COMPANY**

7

8 **Q.** Please state your name and business address.

9

10 **A.** My name is Brent Dibner. My business address is Dibner
11 Maritime Associates, LLC, 151 Laurel Road, Chestnut Hill,
12 Massachusetts 02467.

13

14 **Q.** By whom are you employed and in what capacity?

15

16 **A.** I am President of Dibner Maritime Associates, LLC,
17 ("DMA") a firm that I founded in 2002. I am responsible
18 for directing DMA as it provides management consulting
19 services to the maritime industry.

20

21 **Q.** Please describe your educational background and business
22 experience.

23

24 **A.** I earned a Bachelor of Science in Engineering degree in
25 Naval Architecture and Marine Engineering from the

1 University of Michigan in 1973. In 1977 I graduated from
2 the Harvard Graduate School of Business Administration
3 with a Master's of Business Administration degree.
4

5 My professional experience in the maritime industry began
6 during my undergraduate engineering studies. In 1971 I
7 served an apprenticeship in the Small Ship Division of
8 Swan Hunter Shipbuilders in England, and in 1972 I was
9 employed as a trainee engineer at John J. McMullen
10 Associates in New York City. After graduation I worked
11 between 1973 and 1975 as a naval architect and marine
12 engineer at John J. McMullen Associates in New York City
13 and at Israel Shipyards in Haifa, Israel. I was involved
14 in the design of commercial cargo ships and military
15 ships at both employers.
16

17 In 1975 I entered the Harvard Business School, and during
18 the summer of 1976 I was employed as a management
19 consultant in the Maritime Group of Temple, Barker &
20 Sloane ("TBS") of Wellesley, Massachusetts, working on
21 various maritime matters. Upon graduation, I joined TBS
22 as a consultant in its Maritime Group. Between 1977 and
23 2002, I advanced to the position of Vice President and
24 Senior Partner of TBS and its successor, Mercer
25 Management Consulting. Throughout this time, I was

1 responsible for a substantial portion of the management
2 consulting services that TBS or Mercer provided. I
3 directed the firms' services in the areas of maritime and
4 bulk logistics, with emphasis on bulk shipping and energy
5 production and processing. During the course of my
6 career, I was frequently involved in diverse aspects of
7 maritime transportation and bulk logistics including
8 ocean transportation, bulk port and terminal facility
9 development, inland river transportation, port operations
10 and vessel operations for many clients in the United
11 States and throughout the world.

12
13 In 2002, after 25 years at Mercer, I decided to leave the
14 company to continue my focus on the maritime industry. I
15 founded DMA with the support of Mercer and permission to
16 continue to serve past and current clients with the
17 intellectual capital developed during my career. DMA's
18 team of associates serves clients throughout the world.

19
20 **Q.** What is the purpose of your testimony?

21
22 **A.** The purpose of my testimony is to address the
23 reasonableness and appropriateness of Tampa Electric's
24 Request for Proposals ("RFP") and to present my
25 evaluation of the RFP process and the bids received. My

1 testimony also describes the current state of the
2 waterborne transportation market and presents my findings
3 and recommendations to Tampa Electric as to how to
4 fulfill its needs for waterborne transportation services.
5 My testimony lists the market rates for each segment of
6 the waterborne transportation network. Finally, my
7 testimony addresses the issue of whether Tampa Electric's
8 benchmark for waterborne coal transportation costs is
9 still useful and sufficient for evaluating the
10 reasonableness of the company's transportation costs.

11

12 Q. Have you prepared an exhibit in support of your
13 testimony?

14

15 A. Yes, Exhibit No. ____ (BD-1), consists of two documents.
16 Document No. 1 is my report to Tampa Electric, which is
17 entitled, "Assessment of Market Transportation Rates and
18 Costs for Tampa Electric Domestic Marine Coal Delivery."
19 The report includes descriptions of the bid evaluations
20 and my market models along with my recommendations to
21 Tampa Electric. Document No. 2 contains revised pages of
22 my report, which were corrected in December 2003.

23

24 Q. By what experience or knowledge are you qualified to
25 assist Tampa Electric in developing its RFP, evaluating

1 solicitation responses and modeling the market for
2 waterborne coal transportation services?

3
4 **A.** In addition to the responsibilities and experience I
5 described above, in the course of my professional work I
6 have advised and supported shippers and consignees in
7 structuring a variety of transportation arrangements,
8 including coal transportation for electric utilities such
9 as Tampa Electric, Seminole Electric, Houston Power and
10 Light, New England Electric and Virginia Electric Power.
11 My work has included assisting electric utilities
12 estimate coal transportation costs, examine the
13 performance and marine operations of companies that
14 deliver coal to utilities, request and evaluate bid
15 responses, evaluate the potential costs of specific
16 inland barge routes and specific ocean routes, evaluate
17 the costs of specific oceangoing vessels and design
18 services to compete with railroad transportation
19 services. I have also helped carriers successfully bid
20 on long term business, including a bid for more than
21 three million tons per year of municipal solid waste
22 business for the City of New York.

23
24 I have prepared testimony and testified before various
25 state and federal bodies. On two prior occasions, my

1 reports pertaining to Tampa Electric's coal movements
2 have been provided to this Commission. I have appeared
3 before federal courts, the Federal Maritime Commission,
4 the Florida State Pilotage Board and the United States
5 Senate to present my findings on matters related to the
6 maritime industry, economic impacts, economics, antitrust
7 behavior, contract damages and other issues.

8
9 **Waterborne Transportation Market**

10 **Q.** What is the current status and economic health of the
11 waterborne coal and dry bulk transportation and terminal
12 industry?

13
14 **A.** I will structure my answer in three parts. First, I will
15 address the inland river industry with an emphasis on the
16 dry bulk sector in general and coal transportation in
17 particular. Secondly, I will address the dry bulk
18 terminal services activity on the lower Mississippi River
19 given the location of the company's sources of coal.
20 Finally, I will address the U.S. flag Jones Act dry bulk
21 transportation segment.

22
23 **Q.** What is the current status and economic health of the
24 inland river dry bulk or coal transportation segment?

25

1 **A.** This inland river dry bulk or coal transportation
2 industry generally finds itself experiencing soft barge
3 demand utilization, which has been created by weaker than
4 expected demand and higher than desired supply.
5 Consequently barge rates and earnings have suffered. The
6 largest and presumably strongest and most stable inland
7 barge company, American Commercial Lines, entered into
8 Chapter 11 bankruptcy re-organization in late 2002, which
9 is indicative of the state of earnings for companies in
10 this industry.

11
12 While no solvent barge lines with barge and towboat
13 ownership and operations are currently filing public
14 financial statements with the Securities and Exchange
15 Commission, spot rate levels for grain and coal have
16 generally reflected difficult operating conditions. For
17 example, barge earnings tracked through 2001 for the
18 largest coal carrier do not indicate any upward movement
19 during the past eight years.

20
21 The overall situation for cargo transportation has been
22 very challenging for barge lines. United States grain
23 exports have been restrained this year by strong exports
24 from China. Low farm prices continue to reduce domestic
25 fertilizer demand, which affects northbound barge

1 traffic. United States industrial activity that supports
2 northbound activity has also been weaker than in past
3 years. High utility coal stocks have also reduced the
4 demand for some coal transportation.

5
6 These forces for weaker barge demand have been compounded
7 by continued growth of the size of covered and open
8 hopper barge fleets. As deliveries of new barges have
9 exceeded scrapping in recent years, the supply of inland
10 barges has increased relative to stagnant or declining
11 demand.

12
13 Finally, weak conditions in the industry have led to
14 continued consolidations of barge lines, as some owners
15 seek to exit the industry or avoid massive investments
16 that will be needed to replace aging equipment that was
17 delivered during building booms in the 1970's and early
18 1980's. Many barges are approaching the end of their
19 useful lives and must be replaced to avoid very high
20 maintenance costs and operating problems.

21
22 Q. What is the current status and economic health of the dry
23 bulk terminal services segment?

24
25 A. For the dry bulk terminals on the lower Mississippi

1 River, the conditions described above are affecting
2 export and import volumes. Coal exports have declined.
3 Imports of coal have remained stable but without
4 substantial growth.

5
6 **Q.** What is the Jones Act and the current status and economic
7 health of the U.S. flag Jones Act dry bulk ocean shipping
8 segment?

9
10 **A.** The Jones Act is a federal law that requires that all
11 domestic cargo be carried in vessels that are owned by
12 U.S. citizens, built and registered in the United States
13 and crewed by U.S. citizens. The U.S. flag Jones Act
14 transportation market consists of the demand to move dry
15 bulk cargoes within the country, and the market for those
16 movements has contracted. The larger ships and barges of
17 the types that are most efficient for the trade between
18 Florida and the U.S. Gulf coast were especially affected.
19 Most notably, the volumes of phosphate rock and related
20 fertilizers shipped from Florida to the Mississippi River
21 have dropped sharply. This has led to the liquidation of
22 one fleet of three large dry bulk tug-barge units. Some
23 bright spots for the industry have been increasing tons
24 of petroleum coke moving from several crude oil refining
25 centers to Tampa and Jacksonville and some increased

1 movements of scrap steel towards a new electric furnace
2 in North Carolina.

3
4 U.S. flag Jones Act vessels may also compete to provide
5 transportation for U.S. government-impelled grain export
6 programs (the cargo "preference trades") that donate
7 grain, expedite grain donations or finance grain
8 purchases to developing and less-developed nations.
9 Seventy-five percent of the grain is required to be
10 transported by U.S. flag vessels. In the past decade,
11 the emphasis of the preference trades has shifted toward
12 Asia and away from Central and South America. This has
13 tended to favor larger ships and barges with a cargo
14 capacity greater than 30,000 tons. As a consequence,
15 three new ships have been added--two 50,000 ton capacity
16 ships by Liberty Maritime and one 36,000 ton capacity
17 ship by TECO Transport, all built abroad and modified to
18 meet more rigorous U.S. safety standards. In addition,
19 TECO Transport and one other tug-barge operator modified
20 the connection systems between tugs and barges to permit
21 the tugs to continuously push the barges in all sea
22 states at higher speeds. These modifications have
23 markedly increased the efficiency and capacity of the
24 U.S. flag Jones Act fleet, while also improving the
25 ability of the largest tug-barge units to compete with

1 ships. The preference trade tonnages have been volatile
2 but have generally supported the existing fleet of barges
3 and ships that participate in that trade, with attractive
4 earnings being realized by vessels. These returns
5 supported the investments described above.

6
7 Because of the additional capacity of the previously
8 described new ships and the upgrading of more than
9 150,000 tons of cargo capacity of large tug-barge units,
10 no new dry bulk barges or ships over 20,000 tons have
11 been ordered from U.S. shipyards in more than 20 years.
12 In addition, there is no near-term prospect for new
13 construction. In 2001, the demand for the domestic
14 market transportation totaled approximately 800,000 tons
15 cargo capacity of ship and barge capacity. Supply of
16 dry bulk barges over 10,000 tons capacity and dry bulk
17 ships amounted to approximately 880,000 tons capacity,
18 and four barges totaling 80,000 tons capacity were
19 inactive. Consequently the market was in almost perfect
20 balance. Since then, the petroleum coke trade to
21 Jacksonville, Florida increased substantially, and the
22 fertilizer trades stabilized. Consequently, the Jones
23 Act fleet is in full employment.

24
25 The handful of the largest barges and ships of 30,000 to

1 40,000 tons capacity qualified for the Jones Act are
2 generally focused on the preference trades, while
3 participating opportunistically in the coastal trades.
4 In recent years, larger, faster and more efficient diesel
5 ships and large tug-barges have been added to the U.S.
6 flag Jones Act and U.S. flag foreign trading fleets,
7 improving efficiencies of the fleet. Older, less
8 efficient ships and barges have been scrapped, sold to
9 foreign owners or deactivated. Other than the Tampa
10 Electric, Progress Energy Florida and Jacksonville
11 Electric coal and petroleum coke trades, bulk movements
12 along the Atlantic Ocean and Gulf of Mexico coasts are
13 primarily composed of limestone, wheat, corn, animal
14 feeds, scrap iron and sugar. In the Pacific, rice and
15 sugar are the greatest bulk movements between Hawaii and
16 the Pacific Coast. Thus, the larger vessels that would
17 be the more efficient options for ocean coal shipping
18 from the Mississippi River to Florida and bulk commodity
19 shipping back to the Mississippi River area have
20 lucrative options to instead service the preference
21 trades described above.

22
23 Q. Please provide an overall assessment of the waterborne
24 transportation market.
25

1 **A.** The inland market is recovering from a slowing economy
2 and increased supply. The largest carrier is in
3 bankruptcy and will either emerge or be liquidated.
4 Rates for this segment cannot fall further and be
5 maintained at lower levels for any sustained period of
6 time. The lower Mississippi River river-to-ocean barge
7 terminal services market is dominated by two major
8 companies that are adjusting to reduced demand, even as
9 many of their costs are fixed. Consequently they are
10 fighting aggressively for business. The ocean segment is
11 in balance, with full employment in the domestic sector
12 and additional demand created by the U.S. government's
13 preference trade programs.

14

15 **Bid Solicitation**

16 **Q** Please describe your activities in assisting Tampa
17 Electric with the preparation and issuance of its June
18 27, 2003 RFP for coal waterborne transportation services
19 commencing in January 2004.

20

21 **A.** My activities involved a review of the RFP and a review
22 of the list of companies that were to be directly invited
23 to bid. I provided Tampa Electric with the names of
24 several additional companies that I felt might be
25 interested in bidding.

1 Q. In your opinion, did Tampa Electric make the bid known to
2 a wide range of potential suppliers?

3

4 A. Yes, I believe so. In total, Tampa Electric directly
5 provided its RFP to 24 potential bidders. Tampa Electric
6 provided notice of the RFP to industry publications,
7 which served to notify other potentially interested
8 bidders who then received copies of the solicitation.

9

10 Q. Do you consider Tampa Electric's bid solicitation to be
11 fairly representative of bid solicitations commonly used
12 to secure waterborne coal transportation and terminal
13 services?

14

15 A. Yes, I do. The terminology, requirements, conditions,
16 rates of cargo handling, and other operating
17 specifications are ones that are common in the industry
18 and would be familiar and easily understood by
19 prospective bidders. The bid solicitation represents the
20 distinctive requirements of the necessary movements for
21 Tampa Electric's needs--inland barge, inland barge to
22 ocean vessel and U.S. flag Jones Act ocean bulk vessel.

23

24 Q. Please describe the three segments of waterborne
25 transportation for which Tampa Electric requested

1 proposals from service providers.

2

3 **A.** The three segments of waterborne coal transportation
4 requested by Tampa Electric are the inland river barging
5 segment, the inland river-to-ocean vessel terminal
6 segment and the ocean transportation segment. The inland
7 river barge movement takes place on one or more rivers in
8 the greater Mississippi River system. In each move, coal
9 is dumped at a coal-loading dock into a jumbo open hopper
10 barge designed to transit the rivers. A barge of this
11 type is 195 or 200 feet long by 35 feet wide and is
12 typically loaded to a minimum of eight feet of water
13 depth. Such barges have capacities of 1,450 tons at
14 eight-foot drafts and can be loaded with greater tonnages
15 and deeper drafts when river conditions and waterways
16 draft restrictions allow. The barge is pushed to an
17 unloading point on the lower Mississippi River by a
18 towboat. Typically a group of barges are assembled by
19 smaller pushboats into a "tow" of between four and 35
20 barges depending on the segment of the river being
21 transited. On small rivers with small locks, tows of
22 four barges are common. On the Ohio River, tows of 15
23 barges are common. On the middle Mississippi River,
24 between its confluence with the Ohio River and St. Louis,
25 tows of 20 barges are common. On the lower Mississippi

1 River, below the Ohio River, tows of up to 35 barges are
2 common. Obviously, larger and more powerful towboats
3 with larger crews and fuel consumption rates push larger
4 tows. River conditions such as high or low water, ice or
5 fog dictate changes in tow size and speed. Locks in some
6 waterways may impose delays due to congestion or the
7 locking process.

8
9 Immediately after the hopper barge is loaded with coal,
10 it is shifted away from the coal dock and tied up at a
11 fleeting area by a shifting tug. From there the barge
12 may be shifted again into a tow that is being assembled
13 at a fleeting site or shifted out into the river to join
14 a passing tow. The barge may remain at a fleeting site
15 for hours or days, awaiting a passing tow or the assembly
16 of a tow. At each junction point between rivers, the
17 barge or the tow may be shifted and re-arranged into a
18 larger or smaller tow.

19
20 When the barge is near its destination, it is delivered
21 with other barges to the unloading dock's fleeting area.
22 From there the barge is shifted to the unloading dock for
23 unloading. After unloading, the barge is shifted back to
24 a nearby fleeting site, where it begins the voyage back
25 toward the coal-loading region. If the barge is to be

1 loaded with a northbound backhaul cargo, the barge may be
2 shifted to a cleaning dock and prepared for that voyage.

3

4 **Q.** Please describe the terminal segment.

5

6 **A.** When the hopper barge is delivered to the ocean terminal,
7 it awaits its turn to be unloaded, as described above.
8 At TECO Terminal in Davant, Louisiana, a continuous
9 bucket unloader that can unload the barge in less than an
10 hour performs unloading. The unloaded coal is conveyed
11 by conveyor belts to one of two places, either directly
12 into a waiting ocean ship or barge that is docked at an
13 adjacent pier or to a storage site where it will be
14 deposited in a specific pile according to its
15 characteristics. After storage, the coal is reclaimed by
16 a reclaimer that rotates to dig up the coal and place it
17 on conveyors for delivery to the oceangoing ship. Custom
18 coal blending that creates a coal type tailored to meet
19 operational and environmental requirements of generating
20 units can then be accomplished by reclaiming coal from
21 more than one pile simultaneously.

22

23 **Q.** Please describe the ocean transportation segment.

24

25 **A.** The ocean transportation segment begins when the coal is

1 delivered to an oceangoing ship or tug-barge unit.
2 Their own engine propels ships while oceangoing barges
3 are pushed or towed by oceangoing tugs. The size of
4 these vessels may be as large as 45,000 short tons
5 capacity. The coal is dumped into one of several holds
6 in the vessel, and when full, the hold is covered with a
7 large steel hatch cover to prevent water from entering
8 the vessel. The vessel then sails down the Mississippi,
9 sets a course for Tampa Bay, arrives at Tampa Bay,
10 navigates the Tampa Bay channels and eventually docks at
11 Big Bend Station. The coal is used at Tampa Electric's
12 Big Bend and Polk Power Stations. Currently, coal is
13 also delivered by ocean vessel to Gannon Station for use
14 in the Gannon coal-fired units. However, the station is
15 undergoing a repowering to natural gas-fired generation
16 resulting in the complete elimination of coal-fired
17 generation.

18
19 Ships typically have crews of 25 persons and speeds of
20 about 14 or 15 knots (15 to 17 miles per hour). They
21 typically burn heavy fuel oil as their primary fuel.
22 Tug-barges have crews of between 7 and 10 persons, speeds
23 of 6 to 12 knots (7 to 12 miles per hour) and burn diesel
24 fuel. During the past decade, many large tugs and barges
25 have been equipped with connecting linkages to permit the

1 tug to push the barge at all times, increasing sea speed
2 and reliability.

3
4 **Q.** Tampa Electric's bid solicitation states "Tampa Electric
5 prefers proposals for integrated waterborne
6 transportation services, however proposals for segmented
7 services will be considered." Do you consider this to be
8 a reasonable provision of the bid solicitation?

9
10 **A.** Yes. The Tampa Electric solicitation expresses a
11 preference for an integrated response because such a
12 response is more efficient, simplifies accountability and
13 avoids complex claims within each segment. The Tampa
14 Electric solicitation does, however, also indicate that
15 consideration will be given to proposals for the three
16 segments described above: inland river barging, inland
17 river-to-ocean vessel terminal services and ocean
18 transportation. Bidders also had the option to combine
19 its segment services with the services of one or more
20 other bidders to create an integrated services package
21 managed by a single supplier.

22
23 A single provider provides a multitude of attributes and
24 efficiencies. These include:

25 • Priority scheduling and access to loading and

1 unloading facilities to ensure an uninterrupted,
2 reliable supply of coal;

- 3 • A single responsible party, with absolute control and
4 responsibility and no basis to transfer blame or
5 responsibility, that can delay or even prevent
6 remedial action to resolve long-term or short-term
7 problems, crises, or disruptions;
- 8 • A single point of contact for contract administration
9 that eliminates the need to maintain relationships
10 with one or more providers in each of the three major
11 elements of the supply chain (inland river, terminal,
12 and ocean bulk transportation) and the associated
13 costs of doing so;
- 14 • A single point for payment; and
- 15 • The elimination of complex claims amongst and between
16 the supply chain providers for interference, delay,
17 damage to key facilities, demurrage (delay of barges
18 and ships), despatch (expediting of barges and ships),
19 slow payment of freight or claims, expediting of late
20 or time-critical shipments and other operational
21 factors.

22
23 These attributes allow for cost-effective efficiencies
24 and flexibility for Tampa Electric to manage its fuel
25 inventory while balancing costs when all three segments

1 are needed to transport coal.

2

3 **Q.** The bid solicitation also states "terminal facilities
4 should be accessible to Mississippi River barge traffic
5 and capable of receiving and discharging inland river
6 barges from domestic suppliers in Panamax sized vessels
7 for offshore coal." What purpose is served by such a
8 provision?

9

10 **A.** Tampa Electric relies primarily on domestic coal for its
11 coal-fired units. Consequently, the receiving and
12 discharging of inland river barges from domestic
13 suppliers is logical. In addition, Tampa Electric
14 imports foreign coal for blending with domestic coal and
15 petroleum coke to meet the exacting needs of its Polk
16 Power Station. The primary size of coal shipment from
17 foreign locations is in Panamax-sized ships. These are
18 ships of 60,000 to 75,000 long tons cargo capacity with
19 full load drafts of about 42 feet. The blending process
20 for Polk Power Station is exacting and requires delivery
21 of domestic coals and petroleum coke to the same site as
22 imported coal. The solicitation's requirement is
23 consistent with Tampa Electric's needs.

24

25 By co-locating the coal and petroleum coke supplies for

1 Big Bend and Polk Power Stations at a single location,
2 major efficiencies in inland barge and ocean barge
3 despatch are achieved in the following ways:

- 4 • Different types of domestic and imported coal and
5 petroleum coke can be delivered to a single site by
6 inland river and international bulk carriers in sizes
7 up to and including Panamax vessels;
- 8 • Domestic grades of coal and petroleum coke can be
9 placed directly into the holds of U.S. flag Jones Act
10 oceangoing ships for movement to Big Bend Station;
- 11 • Blended import and domestic coal and petroleum coke
12 can be loaded into multiple holds of a single vessel
13 at a single berth for onward movement to Polk Power
14 Station; and
- 15 • Grades of domestic and imported coal and petroleum
16 coke can be placed in a series of co-located coal
17 storage piles for direct loading or blending.

18
19 **Q.** Could the coal blending process for Polk Power Station be
20 performed at a location other than at the terminal
21 facility?

22
23 **A.** I don't believe so. Logically, there are two options for
24 the site for coal and petroleum coke blending: utilize an
25 existing Tampa Electric coal storage site or use a

1 terminal services facility. Tampa Electric currently has
2 one operating coal storage site at the Big Bend Station.
3 Due to space and configuration limitations, it is not
4 possible to blend the coal for Polk Power Station at the
5 Big Bend coal storage area. Also, at Big Bend Station it
6 is not possible to receive a Panamax vessel, which
7 delivers the imported coal for blending. The storage
8 capacity and flexibility of the existing terminal is much
9 greater than the storage capacity and flexibility at Big
10 Bend Station, and Tampa Electric will need similar
11 capacity and flexibility at any terminal that it may
12 utilize in the future.

13
14 Blending domestic coals, imported coals and petroleum
15 coke at a terminal that is accessible to both domestic
16 suppliers from the Mississippi River and foreign
17 suppliers from the Gulf of Mexico provides a single point
18 for all blending. It is a point along the path the
19 domestic coal, which represents the bulk of Tampa
20 Electric's coal use, must travel to reach Tampa
21 Electric's generating stations, with the attendant
22 efficiencies of scheduling, supervision, planning and
23 storage.

24
25 Q. In addition, the bid solicitation states "proposals

1 should represent the entire requirements stated in the
2 solicitation of Tampa Electric's domestic waterborne
3 solid fuel transportation services." Do you consider
4 this to be a reasonable criterion and, if so, why?

5
6 **A.** Yes, I do. Because of the decision that Tampa Electric
7 must make regarding Big Bend Station's future fuel use
8 under Tampa Electric's Consent Decree, there is the
9 potential for significant declines in the volume of Tampa
10 Electric's future demands for coal transportation and
11 terminal services as represented in this solicitation.
12 The previously discussed advantages of dealing with a
13 single supplier of integrated services also apply to a
14 single supplier for a particular segment; and in
15 addition, planning for these potentially smaller volumes
16 is made more complex if more than one vendor provides
17 services for Tampa Electric's requirements. In that
18 situation, a supplier's perspective is likely to be that
19 the business is more uncertain. Therefore, the supplier
20 would likely charge a premium to provide services. In
21 addition, smaller volumes are unlikely to qualify for the
22 efficiencies or economies of scale that result from a
23 supplier managing greater volumes. Thus, dividing
24 requirements among vendors is likely to result in a
25 greater cost to Tampa Electric as well as increased

1 challenges to scheduling and planning fuel deliveries.

2

3 **Q.** Based on your knowledge of the waterborne coal and dry
4 bulk transportation and terminal industry, do you believe
5 that any of the above-described requirements or criteria
6 as stated in the bid solicitation would have discouraged
7 waterborne transportation providers from submitting
8 creative and innovative bids for all or portions of Tampa
9 Electric's coal transportation and terminal needs
10 beginning in 2004?

11

12 **A.** No, I do not. The requirements are straightforward and
13 pertain to volumes and tonnage, rates of loading and
14 discharge, amounts and types of storage, scheduling,
15 demurrage, standards of cargo hold clean up, and other
16 customary requirements for coal transportation for
17 utilities.

18

19 **Q.** Did Tampa Electric's bid solicitation fairly and
20 adequately inform those in the waterborne coal and dry
21 bulk transportation and terminal industry as to the needs
22 of Tampa Electric beginning in January 2004?

23

24 **A.** I believe that the bid adequately informed industry
25 participants, consistent with the limitations of Tampa

1 Electric's own knowledge of future coal consumption
2 levels and the specific docks at which coal will be
3 loaded.

4

5 **Bid Evaluation Process**

6 **Q.** How did you evaluate the bids that Tampa Electric
7 received in response to its bid solicitation?

8

9 **A.** Tampa Electric received two waterborne transportation
10 services bids and two rail transportation bids. DMA
11 evaluated the two waterborne transportation bids.

12

13 **Q.** Please describe the bids that Tampa Electric received in
14 response to its request for proposals for waterborne coal
15 transportation services ("RFP")?

16

17 **A.** Tampa Electric received four bids--two bids for rail
18 transportation and two bids for waterborne transportation
19 services. The testimony of Tampa Electric witness J. T.
20 Wehle addresses the two rail transportation bids, while
21 my testimony addresses the two waterborne transportation
22 bids. Of the two waterborne transportation bids, one is
23 for inland river transportation and the other is for
24 terminal services. Neither bid proposed to provide an
25 integrated package of services, and only the bid for

1 terminal services proposed to accommodate the volume
2 Tampa Electric will require. Tampa Electric did not
3 receive any bids for the ocean transportation segment.
4

5 **Q.** Please describe how you evaluated the inland river
6 transportation bid.
7

8 **A.** I took into account several factors when evaluating this
9 bid. The inland river transportation bidder has been in
10 Chapter 11 bankruptcy status since late January 2003.
11 Although Tampa Electric requested financial and insurance
12 information, the bidder never provided the information
13 nor addressed the bankruptcy in its proposal. Therefore,
14 my evaluation included a review of limited publicly
15 available information that pertains to the bankruptcy. I
16 obtained information showing that the bidder may be
17 reorganized, broken up or liquidated. The bidder has
18 requested to restructure or terminate contracts. I also
19 learned that the bidder's fleet size has decreased
20 dramatically. These factors, along with the age of the
21 bidder's existing fleet, which raises an additional
22 concern regarding its fleet's performance, resulted in my
23 determination that there are unavoidable and significant
24 risks to engaging in a contractual relationship with this
25 bidder.

1 The bid for inland river transportation also offered to
2 provide transportation for only one million tons per
3 year, approximately 20 percent of Tampa Electric's stated
4 maximum annual requirements. Given the bidder's failure
5 to provide a proposal that meets Tampa Electric's full
6 requirements or to provide financial information, in
7 conjunction with the fact that the bidder is in Chapter
8 11 bankruptcy status, I recommended rejecting the inland
9 river transportation bid.

10
11 **Q.** Were you able to gain any market insight based upon this
12 one bid?

13
14 **A.** Yes. Since the bidder is a large company, and the
15 volumes it proposed to serve are substantial, I
16 considered it worthwhile to continue analyzing the terms
17 of the bid. While there may be differences from a true,
18 valid market bid due to the bidder's financial status and
19 contracted fleet size, I believe that the bid still
20 serves as a practical market indicator. Therefore, I
21 evaluated the bid to determine the reasonableness of its
22 rates for the one million tons per year that it offered
23 to transport.

24
25 I compared the bid to the current rates paid by Tampa

1 Electric for inland river transportation and to rates
2 that have been developed by DMA using proprietary models.
3 My evaluation of the bid, the models, and my
4 recommendations are described in greater detail below.

5

6 **Q.** Please describe the bid Tampa Electric received for
7 terminal services.

8

9 **A.** As I indicated, the bid for terminal services proposed to
10 accommodate the volume Tampa Electric will require. DMA
11 examined the bid with respect to its terms, conditions,
12 facility features, performance, conformance and capacity
13 to meet Tampa Electric's requirements.

14

15 In general, the terminal segment has very high fixed
16 costs because the cost to build and maintain a terminal
17 is substantial, as is the cost of maintaining staff to
18 operate a facility 365 days per year, 24 hours per day.
19 The only major variable costs are electricity to operate
20 the systems and operating and maintenance costs for the
21 machinery and equipment.

22

23 In a weakened terminal market like today's, I expect
24 rates to be restrained. This was reflected in the
25 terminal bid received. I took the terms and conditions

1 of the bid and compared them to the current terms and
2 conditions Tampa Electric pays to provide a complete
3 market perspective on terminal service rates and market
4 conditions. As a result of my analysis, I concluded that
5 the rates in the terminal bid are competitive and should
6 form the basis for my recommended rates. Because Tampa
7 Electric's annual volumes may vary several-fold over the
8 term of the contract, the ratio of coal that is directly
9 transferred from a river barge to an oceangoing vessel
10 versus coal that is stored prior to ocean transportation
11 will vary. Therefore, I adjusted the base rate for the
12 full range of annual tonnages. The rate for each
13 throughput level, my detailed evaluation of the bid and
14 my recommendations are described in greater detail in my
15 final report.

16
17 **Market Analyses**

18 **Q.** In addition to evaluating the bid responses, what
19 methodology did you use to establish the appropriate
20 market rates for waterborne coal transportation services?
21

22 **A.** I relied on two customized, proprietary market models for
23 this purpose, as well as various supporting analyses and
24 information. One model evaluated the costs and market
25 for the inland river barge movements from various coal

1 loading points. The other model evaluated ocean coal
2 transportation between loading points on the Gulf of
3 Mexico and Tampa Bay to establish market rates, while
4 considering the freight rates for available equipment
5 during the next five years.

6
7 **Q.** Please describe your model used to evaluate the market
8 for the inland river barge movements from various coal
9 loading points.

10
11 **A.** Notwithstanding the limited responses to Tampa Electric's
12 RFP, my methodology recognized that the inland barge
13 transportation market is a large and multi-faceted one.
14 Several major coal carriers operate nearly 6,000 open
15 hopper barges and have created a market with spot and
16 period market dynamics. These dynamics have shifted in
17 recent years as Ohio River Valley utilities have bought
18 larger amounts of transportation under more flexible
19 terms. These shorter contracts create more frequent
20 contract mobilization and de-mobilization costs that are
21 challenging for smaller carriers with limited options and
22 traffic patterns. In contrast, larger carriers are
23 better able to mobilize fleets of barges for new
24 contracts, encouraging consolidation that has left fewer,
25 larger carriers competing in the market.

1 While not all aspects of rates, utilization, contract
2 coverage and costs are transparent, my methodology
3 estimated the costs of every movement of coal from barge
4 loading origin to barge unloading destination with
5 reasonable accuracy and meaning. Since these rates were
6 consistent and similar to prevailing rates and barge
7 earnings, there was a basis to conclude that these costs
8 reflect market rates.

9
10 Utilizing this information, I developed market rates
11 based upon each origin point that Tampa Electric expects
12 to use for domestic purchases over the contract period.
13 I compared the bidder's rates to the market rates for
14 verification that they are reflective of the market for
15 inland river transportation. I concluded that indeed
16 they are similar to market rates.

17
18 **Q.** How did you establish appropriate market rates for inland
19 river barge transportation of coal?

20
21 **A.** To determine rates for inland river barge transportation
22 of coal to Davant, Louisiana from 25 locations on the
23 Ohio, Green, Tennessee and upper Mississippi rivers, I
24 utilized my model, which captures the physical
25 requirements for moving each barge load of coal, with

1 operating parameters typical of the barge industry. The
2 model tracks the time required for each activity in each
3 barge's voyage, the resources employed and the cost for
4 each activity and resource. The cost components of a
5 voyage include variable voyage costs (i.e., making and
6 breaking tows, fleeting and shifting); fixed costs (i.e.,
7 barge hire and towboat capital cost recovery); and fuel
8 costs. Variable barge voyage costs are driven by the
9 number, type and duration of activities performed by or
10 for a barge along its route; how many times it is moved
11 for loading or to make or break a tow; and the amount of
12 time it spends waiting for a tow at the load dock,
13 integration points along the way and discharge dock.
14 Other non-voyage variable costs are determined by the
15 number of days required for a barge to complete a voyage,
16 the number of towboat days it employs, the size of the
17 towboats and the respective daily cash operating costs
18 for towboats and barges (i.e., costs for towboat crews,
19 insurance, stores and supplies, maintenance and repair,
20 general and administration, and barge maintenance and
21 repair). Towboat costs are straightforward and
22 obtainable from U.S. Army Corps of Engineers guidelines
23 while barge hire costs are market-driven. To determine
24 the appropriate barge hire, I analyzed several years of
25 financial data as well as freight rate indicators,

1 employing proprietary models developed by DMA. The model
2 assumes a daily barge hire rate of [REDACTED] including capital
3 and fixed operating costs. Fuel costs are determined by
4 the number of towboat days, towboat horsepower and the
5 average percentage of capacity used by the towboat on
6 each river segment.

7
8 In order to determine the activity times and allocated
9 costs for each barge, it is necessary to understand the
10 patterns of river movements. The key variables that
11 affect these parameters are the number of barges moved by
12 a towboat on each river segment; whether the barges will
13 be part of a tow dedicated to a single movement, a tow
14 dedicated to Tampa Electric coal from a number of docks,
15 or a passing tow; and the frequency of tows available for
16 a given barge. The analysis is made more complex by the
17 fact that each barge is usually part of at least two tows
18 because the towboats employed and number of barges per
19 tow change from river to river.

20
21 To determine these inputs to the model, I used the bid
22 solicitation, data published by the U.S. Army Corps of
23 Engineers, barge line financial filings, information from
24 interviews with river service providers and industry
25 norms and rules of thumb. I evaluated how rates would

1 vary under a number of scenarios and determined that
2 Tampa Electric must be able to benefit from the
3 efficiencies of the inland system. If its barges were to
4 move only in dedicated tows, rates would be unreasonably
5 high, especially if tonnages decrease in the latter part
6 of the contract period. I concluded that the appropriate
7 scenario is the "partially dedicated tow", in which Tampa
8 Electric-specific barges move in dedicated tows as long
9 as justifiable by coal volumes. When volumes drop to
10 where costs and operating profiles are misaligned with
11 those of the larger river system, the model assumes that
12 Tampa Electric-specific barges will join passing tows and
13 incur costs in accordance with those tows. For each
14 loading dock, the model generates subtotals of fixed,
15 variable and fuel costs and total cost. The total cost
16 is divided by the number of tons that can be loaded in
17 the barge at each dock to determine a rate in dollars per
18 ton.

19
20 My recommended inland river transportation market rates
21 are very close to those of the bid and are based on an
22 analysis of each movement from origin to destination at
23 rates that will provide for reasonable returns expected
24 by a supplier. There are some differences between the
25 recommended rates and the bid, but these can be

1 attributed to differences between the bidder's strategy
2 and models and the model that DMA employed. As I
3 mentioned above, the bidder is in Chapter 11 bankruptcy
4 status, and their open hopper business is in a state of
5 apparent rapid contraction in terms of fleet size and
6 contracts. The company may also be broken up or
7 liquidated due to its financial condition. Therefore, the
8 forces and considerations behind this bidder's proposal
9 may reflect factors and forces that are not consistent
10 with an ongoing business strategy, so the proposal cannot
11 on its own determine the market for these services.

12
13 **Q.** What are your recommended inland river transportation
14 rates?

15
16 **A.** The market inland river transportation rates that I
17 recommended comprise a fixed and a variable component.
18 The fixed component covers the capital charges that
19 assure appropriate returns on the debt and equity
20 portions of capital investment. The variable component
21 includes charges to cover all other costs, including
22 charges for shifting barges to and from loading and
23 discharge docks, fleeting, cleaning, maintenance and
24 repairs, towboat crewing, general and administrative
25 expenses and fuel. The fuel charge is described

1 separately, and it is based on the estimated cost of fuel
2 to transport coal. The allocation of the rate into fixed
3 and variable components is appropriate because it places
4 the risk and responsibility on the operator for the
5 variable costs of which it is aware when the contract is
6 arranged or that it has some ability to control during
7 the contract period. The fixed component is the portion
8 of the rate that enables the operator to earn a profit on
9 the equipment, based on its ability to use barges and
10 towboats efficiently. The variable component consists
11 primarily of costs that are under the control of the
12 operator and which can be expected to change during the
13 duration of the contract. Other variable costs are
14 incurred by the use of outside service providers, for
15 example, costs for shifting or fleetings. These charges
16 tend to follow macroeconomic trends; hence they are
17 adjusted by the price indices.

18
19 **Q.** How did you establish appropriate market rates for
20 waterborne coal transportation terminal services?

21
22 **A.** I did not create or rely upon a market model of the
23 terminal segment because the company received a bona fide
24 bid for its full requirements of terminal services, and
25 the rates quoted can be viewed as representing the market

1 for those services. I determined that the bidder
2 possesses the facilities, capacity, and financial
3 strength to fully meet Tampa Electric's requirements, and
4 I regarded its bid as being valid and meaningful. The
5 rates were also generally consistent with prior rates
6 tendered by the bidder and market indications gleaned by
7 DMA for bulk terminal services. Consequently, its bid
8 can be deemed to reasonably represent the market.
9 Therefore, the rate structure of the terminal bid was
10 used with no modifications, as outlined later in my
11 testimony.

12
13 **Q.** Please describe your second model and how you established
14 appropriate market rates for the ocean segment of the
15 waterborne coal transportation services.

16
17 **A.** A critical factor in establishing market rates for the
18 ocean segment is a consideration of the opportunities to
19 transport other domestic dry bulk and U.S. export dry
20 bulk preference cargoes. As I explained in my direct
21 testimony, preference trades are U.S. government-impelled
22 grain export programs that donate grain, expedite grain
23 donations or finance grain purchases to developing and
24 less-developed nations. These types of hauls tend to be
25 more lucrative than coal hauls. It is imperative that

1 the earnings potential for ocean shipping vessels be
2 considered. This represents an opportunity cost of
3 deciding to serve Tampa Electric's needs. In fact, I
4 believe that because these alternative opportunities are
5 lucrative and in high demand, Tampa Electric did not
6 receive a bid to provide ocean transportation.
7 Therefore, my methodology considered market pricing for
8 the ocean transportation system as the rates that vendors
9 would require to transport all of the 5.5 million tons
10 that Tampa Electric established as its maximum annual
11 volume, taking into account the domestic and foreign-
12 trading marketplaces in which these vessels operate and
13 the amounts that they are capable of earning in those
14 trades.

15
16 I considered the earnings potential for ocean shipping
17 vessels. I defined earnings as the net funds that would
18 be expected or required to be earned by each vessel after
19 deducting voyage expenses for port, cargo handling,
20 canal, and fuel expenses. The net earnings (termed "time
21 charter equivalent" earnings) of vessels allowed me to
22 calculate the total amounts that vessels would require to
23 carry coal from the existing terminal in Davant,
24 Louisiana to Tampa Electric's Big Bend Station. This
25 provided a context in which to view and understand the

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maximum ocean rate.

A maximum time charter rate was defined by the observed patterns of earnings of vessels in the preference trades. I analyzed more than 135 preference voyages of U.S. flag Jones Act vessels between the years 2000 and 2003 to estimate time charter earnings for the full range of differently sized vessels. The pattern of time charter earnings was used to establish a trend curve by which each size vessel could have a preference time charter rate assigned to it.

Next, I established the market rate of the core fleet of TECO Transport barges currently used to serve Tampa Electric's needs. It was defined as the average of the minimum and maximum time charter rates for those vessels. This rate represents the average rate needed to move the maximum volume of coal. The large, efficient barges currently dedicated to Tampa Electric's ocean transportation needs keep rates low in comparison to the spot rates that would prevail if Tampa Electric were forced to go to the tight ocean transportation marketplace, which would result in the use of smaller vessels, if adequate capacity could be found.

1 DMA examined two key marketplaces for U.S. flag Jones Act
2 dry bulk vessels--the domestic dry bulk market and the
3 government-impelled dry cargo market. First, to assess
4 the general state of the dry bulk market, DMA evaluated
5 the transportation demand in 2001 for all dry bulk
6 commodities moving along the coasts. Because all of this
7 business is unregulated and privately negotiated, no
8 public disclosures of rates or earnings are available.
9 However, using total tonnage and distances, and the role
10 of ships versus barges, the demand for barges was found
11 to be approximately 806,000 capacity tons. The fleet of
12 ships and barges over 10,000 tons cargo capacity, which
13 is the size that are primarily engaged in these trades
14 and are most competitive, totaled about 880,000 capacity
15 tons, with only four barges that total 80,000 capacity
16 tons idled and one large barge with cargo capacity that
17 exceeds 35,000 tons without access to a push-linked tug.
18 Thus, the market is essentially in balance, while smaller
19 barges are providing some additional minimal capacity at
20 higher rates. Consequently, I was able to conclude that
21 barges certified for ocean service and married to
22 appropriately equipped tugs are generally busy in the
23 domestic market.

24
25 Second, DMA considered the U.S. government preference

1 cargo trades that reserve export shipments donated or
2 granted by governments for transportation by U.S. flag
3 ships. DMA analyzed more than 135 individual voyages by
4 ships and barges to estimate their net time charter
5 earnings to gain insight into the earnings of specific
6 vessels. Based on the overall trend, a preference cargo
7 earnings rate was assigned to each ship and tug-barge
8 unit presently serving Tampa Electric's needs, as well as
9 to a range of key vessels controlled by other carriers.

10
11 A minimum time charter rate was established by
12 considering the embedded costs and values of the vessels,
13 using depreciated replacement costs based upon remaining
14 lives and related reconstruction costs. The
15 reconstruction cost estimates were based on known recent
16 life extensions and capacity expansion programs costs.
17 These capital costs were combined with ship operating
18 costs for crew, stores and supplies, insurance, repairs
19 and maintenance and administration and management to
20 determine the minimum required time charter rate.

21
22 The recommended rate for ocean shipping includes a fixed
23 component and a variable component. The fixed component
24 recovers the capital cost of establishing and maintaining
25 a fleet of vessels dedicated to serving Tampa Electric's

1 transportation needs. The variable component covers
2 charges for all other costs, including fuel. The fuel
3 costs are described and escalated separately. The fuel
4 price assumption for the market rate I established is
5 based on a price of [REDACTED] per gallon for No. 2 fuel oil.
6 The fuel component of the rate will vary as the index by
7 which it is determined, the Platts Gulf Coast Waterborne
8 No. 2 Oil - Low, varies.

9
10 To complete my market analysis, I examined and considered
11 the costs of new equipment. I found that the current
12 costs and risks associated with new equipment are
13 prohibitively high and are significantly higher than they
14 were a decade ago. This evaluation provided me with yet
15 another way to attempt to determine appropriate market
16 rates, with the resulting rate setting the boundary for
17 the higher range of potential market rates.

18
19 In the end, my methodology established a single overall
20 market rate for the ocean transportation segment, or an
21 average rate that leaves the decision about the
22 particular mix of vessels engaged in the trade to the
23 provider.

24
25 I calculated a separate market rate for the movement of

1 petroleum coke from refineries in east Texas. This was
2 necessary because Tampa Electric contracts for a
3 significant portion of its petroleum coke needs from this
4 region. DMA selected the current core fleet vessel that
5 has a time charter rate closest to the average rate of
6 the core fleet vessels because it is representative of
7 the market price for the size of the vessel used. I then
8 calculated the required rate for that vessel to transport
9 the product from Texas to Big Bend Station.

10
11 **Q.** What conclusion did you reach regarding the ocean
12 segment?

13
14 **A.** As a result of my analysis, I concluded that no existing
15 fleet or combination of Jones Act dry bulk barges or ships
16 other than the TECO Transport fleet is capable of
17 competitively serving Tampa Electric's needs from a
18 capacity and price standpoint. All of the other fleets
19 and combinations of vessels are committed to hauling other
20 products in the dry bulk market and the government-
21 impelled preference trades. Therefore, my analysis has
22 determined that the appropriate market rates for the ocean
23 segment are based upon the continued use of the TECO
24 Transport fleet and reflect the capital, operating and
25 opportunity costs of those vessels.

1 Q. How should the various components of the contract charges
2 be escalated during the contract period?

3
4 A. I recommended that the inland segment and the ocean
5 segment have similar contract price escalation methods.
6 Fixed charges must be included to assure the desired
7 level of capacity, plus the incremental rate per ton to
8 actually move cargo. An appropriate portion of the
9 incremental charge is for fuel, which should be indexed
10 to the Platts Gulf Coast Waterborne No. 2 Oil - Low
11 index. The balance of the incremental portion should be
12 linked to the Consumer Price Index and Producer Price
13 Index. The rates do not include escalation of the fixed
14 component.

15
16 Q. Please summarize the recommendations you made to Tampa
17 Electric regarding the fulfillment of its waterborne coal
18 transportation services needs as a result of your
19 evaluation of the bid responses and your market
20 simulations and analyses.

21
22 A. Regarding the bids, I considered the river segment bid to
23 be non-conforming. Given the bidder's failure to provide
24 a proposal that meets Tampa Electric's full requirements
25 or to provide financial information, in conjunction with

1 the fact that the bidder is in Chapter 11 bankruptcy
2 status, I recommended that Tampa Electric reject the
3 inland river transportation bid and utilize the market
4 rates established in DMA's inland river model.

5
6 For the marine terminal element, I utilized the rate
7 structure of the bid as an appropriate market rate.

8
9 In assessing the ocean transportation market, I evaluated
10 the core fleet that presently carries Tampa Electric's
11 coal from the terminal and delivers it to the plant. I
12 examined the costs per ton for the journey from Davant,
13 Louisiana to Big Bend Station. I calculated a market
14 rate, and then I evaluated that rate to assure that it
15 provides the supplier with acceptable returns given the
16 current market conditions and alternative hauls.

17
18 Overall, the combined market waterborne transportation
19 rate as of January 1, 2004 is [REDACTED] per ton. This is
20 [REDACTED] per ton less than the rates paid during the third
21 quarter of 2003 under the existing contract. The
22 individual segment market rates that I recommended are
23 described below.

24
25 The average market rate for inland river transportation

1 is [REDACTED] per ton. This average rate was calculated using
2 the estimated rates of the river locations where Tampa
3 Electric has contracted for delivery of its 2004 coal
4 supply. The market rate for terminal services is [REDACTED]
5 per ton, which includes a [REDACTED] fleeting charge. The
6 market rate for ocean transportation of Tampa Electric's
7 maximum annual requirements of 5.5 million tons is [REDACTED]
8 per ton. These rates total to the [REDACTED] per ton market
9 rate listed above.

10
11 I recommended that Tampa Electric present the market
12 rates I established for each segment, as detailed in
13 Document No. 1 of my exhibit, to TECO Transport for its
14 decision to meet or beat the market price for services
15 beginning January 1, 2004, as was required by the terms
16 of the then existing contract. I recommended that if
17 TECO Transport opted to provide service under the
18 contractual "Right of First Refusal" clause, Tampa
19 Electric should utilize the market rates I established to
20 negotiate a contract with TECO Transport.

21
22 **Q.** Have you made any changes to your models or report since
23 submitting your recommendations to Tampa Electric?

24
25 **A.** Yes, pages 9 and 68 of my report were revised to reflect

1 the specific CPI and PPI indices used to escalate the
2 variable components. In addition, in December 2003, I
3 discovered offsetting calculation errors in the ocean
4 transportation model. The errors were corrected and I
5 provided Tampa Electric with the revised ocean segment
6 rate information along with revisions to my original
7 report. The revised are pages 62 through 66 and 68. All
8 revised pages are provided as Document No. 2 of my
9 exhibit. The errors raised the total ocean market rate
10 by \$0.03 per ton. The amounts of the fuel, fixed and
11 variable rate components were also revised, with
12 resulting greater percentages for the fixed and fuel
13 components and a reduced percentage for the variable
14 component. The errors also raised the separate market
15 rate that I calculated for the ocean transportation of
16 petroleum coke from refineries in east Texas by \$0.02 per
17 ton.

18
19 **Q.** Please describe the calculation errors that were
20 corrected.

21
22 **A.** There were a few items that, while properly reflected in
23 the assumptions and descriptions in my report, were
24 incorrectly modeled. These items included the
25 calculation of the average timecharter rate, the tons of

1 coal typically carried by the fleet that serves Tampa
2 Electric, sea speeds and free unloading time at Big Bend
3 Station and the associated delay time assumption. The
4 use of the median vessel as the basis of the rate for
5 shipments from east Texas was also incorrectly modeled.
6

7 **Q.** Did the methodologies you employed in determining the
8 ocean segment market rate change?
9

10 **A.** No, they did not.
11

12 **Q.** Please describe your final report.
13

14 **A.** I have summarized the results of my evaluation, analyses
15 and recommendations above. My final report is the
16 document that I provided to Tampa Electric, which is
17 attached as Document No. 1 of my exhibit. The report
18 provides the results of my analysis, detailed information
19 about my analyses and recommendations and descriptions of
20 my methodologies and supporting background information.
21 In addition, as previously stated, Document No. 2 of my
22 exhibit contains the pages of my report that were revised
23 in December 2003.
24
25

1 **Transportation Benchmark**

2 **Q.** In your opinion, should the Commission continue to rely
3 upon an averaging of rail rates paid by Florida municipal
4 utilities as a form of benchmark or market surrogate to
5 assess the reasonableness of the costs that Tampa
6 Electric pays for coal transportation and terminal
7 services?

8
9 **A.** Yes. I agree that the rail rates utilized and the
10 calculation established by the Commission to evaluate
11 Tampa Electric's waterborne transportation costs serve as
12 a valid benchmark and should be relied upon for that
13 purpose, as has been done by Tampa Electric in prior
14 years. Rail transportation is the only competitive
15 alternative to waterborne transportation for Tampa
16 Electric to transport the volume of coal it requires.
17 The methodology in place utilizes rail rates as the
18 company's and the Commission's best available
19 approximation of the next best alternative. I am not
20 aware of a better alternative for comparison for the
21 purpose of evaluating Tampa Electric's actual waterborne
22 transportation costs.

23
24 **Q.** Does this complete your testimony?
25

1 A. Yes, it does.

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EXHIBIT TO THE TESTIMONY OF
BRENT DIBNER

DOCUMENT NO. 1

ASSESSMENT OF MARKET TRANSPORTATION RATES AND
COSTS FOR TAMPA ELECTRIC DOMESTIC
MARINE COAL DELIVERY

**PAGES 53 THROUGH 130 ARE REDACTED FOR
CONFIDENTIALITY PURPOSES**

EXHIBIT TO THE TESTIMONY OF
BRENT DIBNER

DOCUMENT NO. 2

REVISED PAGES TO THE "ASSESSMENT OF MARKET
TRANSPORTATION RATES AND
COSTS FOR TAMPA ELECTRIC DOMESTIC
MARINE COAL DELIVERY" REPORT

**PAGES 132 THROUGH 138 ARE REDACTED FOR
CONFIDENTIALITY PURPOSES**