

EXHIBIT NO. 72-Conf

DOCKET NO: 031033-EI

WITNESS: BRENT DIBNER

PARTY: TAMPA ELECTRIC COMPANY

DESCRIPTION: DOCUMENT NO. 01500-04

PROFERRED BY: STAFF

*11-26-05 (entire DN)*  
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DOCUMENT NUMBER-DATE

06647 JUN 16 8

FPSC-COMMISSION CLERK

*declass 11-26-05*  
FLORIDA PUBLIC SERVICE COMMISSION  
DOCKET  
NO. 031033-EI EXHIBIT NO. 72  
COMPANY/ Staff  
WITNESS:  
DATE: 5/27-28/04 + 4/10/04

**AUSLEY & MCMULLEN**

ATTORNEYS AND COUNSELORS AT LAW

227 SOUTH CALHOUN STREET  
P.O. BOX 391 (ZIP 32302)  
TALLAHASSEE, FLORIDA 32301  
(850) 224-9115 FAX (850) 222-7560

**ORIGINAL**

February 2, 2004

HAND DELIVERED

Ms. Blanca S. Bayo, Director  
Division of Commission Clerk  
and Administrative Services  
Florida Public Service Commission  
2540 Shumard Oak Boulevard  
Tallahassee, FL 32399-0850

RECEIVED FPSC  
COMMISSION  
CLERK  
FEB - 2 PM 4:53

Re: Review of Tampa Electric Company's waterborne transportation contract with  
TECO Transport and associated benchmark; FPSC Docket No. 031033-EI

TRANSMITTAL OF CONFIDENTIAL INFORMATION

Dear Ms. Bayo:

Pursuant to a Request for Specified Confidential Treatment Tampa Electric is simultaneously filing with your office, we enclose a single confidential version of six pages of output from Mr. Brent Dibner's computer models requested by Staff. The confidential information contained in this filing is printed on yellow stock paper and stamped "CONFIDENTIAL." We would appreciate your maintaining confidential treatment of the enclosed materials.

Please acknowledge receipt and filing of the above by stamping the duplicate copy of this letter and returning same to this writer.

Thank you for your assistance in connection with this matter.

Sincerely,

RECEIVED & FILED

Jh  
FPSC-BUREAU OF RECORDS

*James D. Beasley*  
James D. Beasley

JDB/pp  
Enclosure

cc: Wm. Cochran Keating IV (w/o enc.)  
Todd Bohrmann (w/o enc.)  
Bill McNulty (w/o enc.)

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DOCUMENT NUMBER-DATE

01500 FEB-2 8

FPSC-COMMISSION CLERK

INPUT

	Current Value	Revised Value
<u>Cost per crew day</u>		
ITB	350	350
Tug Barge	325	325

<u>Operating Parameters</u>		
Load rate (tons per hour)	1,250	1,250
Shifting Time at Big Bend (days)	0.0	-
Channel Maneuvering/Docking/Undocki	0.5	0.5
Delay as % of Voyage Time at Sea	15%	15%

<u>Cost of Capital Calculation</u>	<u>Current Value</u>				<u>Revised Value</u>			
	Pct of Capital	Return	Tax	Capital Cost (Wtd)	Pct of Capital	Return	Tax	Capital Cost (Wtd)
Equity	50%	18%	0%	9%	50%	18%	0%	9%
Debt	50%	8%	35%	3%	50%	8%	35%	3%
	100%			12%	100%			12%

<u>Daily Operating Costs</u>	Peggy Palmer	Gayle Eustace	Donis Guenther	Mary Turner	Diane Ludwig	Diana T	Barbara Vaught
	<u>Current Values</u>						
Tug/Ship Stores, Supplies, Lube Oil	288	320	288	320	256	256	256
Tug/Ship Machinery Overhaul	75	76	64	76	66	68	58
Tug Yard Accrual	538	737	617	418	538	558	737
Tug Voyage Repairs	222	228	165	228	171	182	133
Tug Insurance	472	744	568	589	422	423	384
Barge Op Stores and Supplies	224	218	151	254	137	163	114
Barge/Ship Yard Accrual - Hull	972	1,117	537	1,053	970	902	877
Barge Self-Unloading M&R Accrual	-	303	-	403	-	303	-
Barge Insurance	636	1,645	659	843	202	388	140
Barge/Ship Voyage Repairs	444	432	299	504	271	324	226
Management Cost	1,500	1,500	1,500	1,450	1,500	1,450	1,500

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OUTPUT

← To obtain the correct results, click the 'Order Barges' button to the left each time changes are made to input values!

Rate Build-Up and Composition

Barge	Est Rate	Capacity (000 tons)	Tons/Yr (000)	Cum Tons (000)	Cum Cost (\$000)	Ave Rate	Rate to Ave
Peggy Palmer	7.47	1,111	1,111	1,111	8,293	7.47	0.54
Gayle Eustace	7.66	1,447	1,447	2,558	19,376	7.57	0.35
Doris Guenther	8.05	877	877	3,435	26,441	7.70	(0.04)
Mary Turner	8.09	1,024	1,024	4,459	34,727	7.79	(0.09)
D Ludwig	8.73	756	756	5,215	41,321	7.92	(0.72)
Diana T	9.58	560	285	5,500	44,053	8.01	(1.58)
Barbara Vaught	11.35	585	-	5,500	44,053	8.01	(3.34)

Composition Per Ton

	Fuel	Fixed	Variable	Total
Peggy Palmer	0.99	3.72	2.75	7.47
Gayle Eustace	0.67	4.25	2.74	7.66
Doris Guenther	0.86	3.85	3.34	8.05
Mary Turner	1.05	3.66	3.38	8.09
D Ludwig	1.14	4.14	3.44	8.73
Diana T	1.59	3.01	4.98	9.58
Barbara Vaught	1.20	5.75	4.39	11.35
Weighted Avg.	0.95	3.89	3.17	8.01
Component Share	12%	49%	40%	100%

Per Diem Rates

Bareboat Hire	TECO TC	Preference TC Rate	AverageTC Rate
7,551	15,846	25,000	20,423
21,875	32,694	25,000	28,847
6,820	14,819	21,000	17,909
9,346	18,733	22,000	20,367
3,471	10,603	22,000	16,301
5,517	13,133	12,000	12,566
6,771	13,797	20,000	16,898

Vessel Value

Tug Value	Barge Value	Total Value
4,308,698	10,738,845	15,047,543
11,504,321	27,416,679	38,921,000
6,739,656	8,860,069	15,599,725
7,074,302	12,868,890	19,943,192
3,901,914	876,960	4,778,874
3,952,545	5,222,250	9,174,795
2,565,108	756,000	3,321,108

Tug	Naide Ramit	Barbara Kessel	Sharon DeHart	Beverly Anderson	Ellene Hicks	Debbie Rankin	Lisa W.	3 Barges	4 Barges
Barge/Ship								Somerset Class	Dixie Fuels Class
Linkage	Artuber								
Type	No Gear TB	Geared ITB	No Gear ITB	Geared TB	No Gear TB	Self Unload TB	No Gear TB	No Gear ATB	No Gear ATB
Am. Bureau of Shipping Classification	In Class T5 6 2003								
Total Time	10.35	7.54	8.36	9.33	9.93	9.74	10.78	10.22	10.27
Voyage Rate Assessment	At Average Rate	At Average Rate	At Average Rate	At Average Rate	At Average Rate	At Average Rate	At Average Rate	At Average Rate	At Average Rate
Total Time Charter Expense	211,303	217,485	149,842	189,953	161,815	122,433	182,221	145,745	149,230
Fuel at Sea	31,674	19,251	17,026	28,236	23,357	24,160	20,588	14,832	19,328
Tug Generating Fuel	1,201	1,751	1,067	722	1,268	754	1,043	1,583	1,589
Barge Fuel	585	426	472	527	561	551	610	578	580
Lube Oil	1,584	963	851	1,412	1,168	1,208	1,029	747	966
Tug Assist at Davant	500	500	500	500	500	500	500	500	500
Tug Assist at Big Bend	1,000	1,000	1,000	1,000	1,000	1,000	1,999	1,000	1,000
Misc. Port Expenses	3,770	3,669	2,545	4,280	2,300	2,750	1,920	1,470	1,730
Total Cost Per Voyage	251,617	245,048	173,104	228,629	191,908	153,356	209,911	166,658	174,924
Per Short Ton - Big Bend	7.47	7.88	8.05	8.09	8.73	8.58	11.38	11.49	10.29
Annual Voyages and Maximum Delivery									
Voyages Per Year	32.96	45.23	40.81	36.56	34.35	35.00	31.62	33.36	33.21
Tons Per Year	1,110,694	1,447,331	877,440	1,023,731	755,757	560,000	585,023	483,661	564,577
Fuel Prices									
Fuel Price Per Ton-IFO Del. New Orleans	135	135	135	135	135	135	135	135	135
Fuel Price Per Ton-No. 2 Diesel New Orleans	212	212	212	212	212	212	212	212	212
Fuel Price - Coal									
Fuel Adder for Delivery to Vessel/Per Ton	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
Capital Cost Analysis									
Tug Rep Value Per HP	1150	1650	1650	1350	1350	1350	1350	1400	1100
Barge Rep Value Per DWT	633	633	633	633	633	633	633	633	633
Tug DRV at 50 Yr Useful Life	4,308,698	11,504,321	6,739,656	7,074,302	3,901,914	3,952,545	2,585,108	3,362,477	3,682,713
Barge DRV at 25 Yr Useful Life \$	10,738,845	17,416,679	8,860,069	12,868,890		5,222,250		6,280,943	5,201,678
Tug Rehab Credit									
Barge Scrap Credit						876,960		756,000	
Barge Jumboization/Enhancement and Life		10,000,000						1,000,000	1,000,000
Barge Unit Value at \$ 250 per DWT									
Ship DRV at \$ 1600 per DWT									
Int'l Bulker Value									
Wreck Act Reconstruction									
US Flag Reflag Add'l Cost									
Market Scale Value									
Total	15,047,543	38,921,000	15,599,725	19,943,192	4,778,874	9,174,795	3,321,108	10,643,420	9,884,390
Amortization of Capital									
Tug Amortization of Value	\$796,395	\$2,379,022	\$1,011,732	\$1,120,965	\$721,207	\$755,867	\$837,418	\$602,413	\$659,798
Barge/Ship Amortization of Value	\$1,778,590	\$5,080,285	\$1,313,780	\$2,065,913	\$462,518	\$1,125,295	\$1,471,632	\$979,380	\$396,589
Bareboat as pct of value	17%	19%	15%	16%	25%	21%	70%	15%	17%
Days in Service/Year	341	341	341	341	341	341	341	341	341
Time Charter Array and Averaging									
Operating Expenses	\$ 8,294	\$ 10,819	\$ 7,999	\$ 9,388	\$ 7,131	\$ 7,616	\$ 7,025	\$ 5,875	\$ 6,213
Bareboat/Day	\$7,551	\$21,875	\$6,820	\$9,346	\$3,471	\$5,517	\$6,771	\$4,635	\$4,854
Total TC Requirement									
Preference TC Rate (From Parabolic Curve Fit)									
Average/Used TC Rate									
Implicit Daily Bareboat/Capital Component	12.128	18.028	9.510	10.879	9.170	4.950	9.873	8.382	6.213
Components of Costs									
Fuel	0.99	0.67	0.86	1.05	1.14	1.59	1.20	1.18	1.26
Fixed	3.72	4.25	3.85	3.66	4.14	3.01	5.75	5.91	3.75
Variable	2.75	2.74	3.34	3.39	3.44	4.98	4.30	4.40	5.27
Tonnage Required for 5.5mm	7.47	7.56	8.05	8.09	8.73	9.58	11.35		
Percentages of Costs									
Fuel	13.3%	8.7%	10.7%	13.0%	13.1%	16.5%	10.6%	10.3%	12.3%
Fixed	49.9%	55.5%	47.8%	45.2%	47.4%	31.4%	50.7%	51.4%	36.5%
Variable	36.8%	35.8%	41.4%	41.8%	39.5%	51.9%	38.7%	38.3%	51.2%
TC Cost Base	15,846	32,894	14,819	18,733	10,603	13,133	13,797		
Preference TC	25,000	25,000	21,000	22,000	22,000	12,000	20,000		
Average TC Used	20,423	28,847	17,909	20,367	16,301	12,566	16,698		
Tug Value	4,308,698	11,504,321	6,739,656	7,074,302	3,901,914	3,952,545	2,585,108		
Barge Value	10,738,845	27,416,679	8,860,069	12,868,890	876,960	5,222,250	756,000		

Tug	Naida Rami	Barbara Kessal	Sharon DeHart	Beverly Anderson	Elena Hicks	Debbie Rankin	Lisa W.	3 Barges	4 Barges
Barge/Ship Linkage								Somerset Class	Dirte Fuels Class
Type	No Gear TB	Artubar Geared ITB	Artubar No Gear ITB	Geared TB	No Gear TB In Class TB 6 2003	Self Unload TB	No Gear TB	No Gear ATB	No Gear ATB
Ann. Bureau of Shipping Classification									
Tug Built	1976	1966	1972	1982	1976	1975	1966	1982	1982
Barge/Ship Built	1981	1977	1985	1982	1967	1975	1964	1990	1982
Barge/Ship Rebuilt		1990	1986						
Tug Acquired	1986	1966	1981			1975	1966	1982	1982
Barge Acquired			1981		1967		1964	1990	1982
Tug former name	Frances S Ocasport			April T Becker	Alice St Philip				
Barge/Ship former name		CF-1	Thunder/USL 502	Erol Becker	Pearl Jahn	Faustina			
DWT Short Tons	37,700	36,696	25,449	42,800	23,000	27,500	19,200	14,700	17,300
Hold capacity R3	1,392,000	1,128,964	866,000	1,077,455	945,000	625,000	812,116		
Tons to Big Bend at 33 feet ST - Actual Delivery	33,700	32,000	21,500	28,000	22,000	16,000	18,500	14,500	17,000
Gross tons	14,379	16,728	10,434	16,728	9,542	16,528	7,998	7,438	10,000
LOA	550.0	640.0	548.0	610.0	420.0	495.0	420.0	419.0	462.0
Beam	78.0	75.3	76.2	78.1	80.0	85.0	80.0	75.0	82.0
Draft Full, ft	34.7	35.9	28.1	36.9	29.1	34.2	25.2	20.4	22.0
Draft Light, ft	5.5	6.5	5.5	5.1	5.8	7.0	5.0	5.0	4.8
Feet of Cargo	29.2	29.4	22.6	31.6	23.3	27.2	20.2		
TPI estimated (ST)	108	104	94	115	84	81	81	85	83
TPI overall (ST)	106	104	94	113	82	84	79	80	84
FT/MT	97	67	83	64	99	38	102	0	0
Speed, knots	6.5	11	9	7.5	6.8	7.0	6.0	6.5	7
Horsepower	7,000	7,200	5,210	7,200	5,400	5,750	4,200	3,300	4,600
Fuel	DO	DO	DO	DO	DI	DO	DO	DO	DO
HP/DWT ST	0.21	0.23	0.24	0.26	0.25	0.36	0.23	0.23	0.27
Fuel Burn at 90% HP (gals/hr)	315	324	234.45	324	243	258.75	189	148.5	207
Tons Per Day	25	26	19	26	19	21	15	12	17
Tug KW generating - installed	300	600	330	200	330	200	290	400	400
Gen Tons/Day	0.5	1.1	0.6	0.4	0.6	0.4	0.5	0.7	0.7
Speed/33'DWT/HP	3.90	5.80	4.63	3.51	3.77	2.91	3.60	3.69	3.42
Tug Age, Gross or Since Rebuild	27	5	18	21	27	28	37	21	21
Barge Age, Gross or Since Rebuild	22	5	18	21	36	28	39	13	21
Ultimate Tug Life	45	20	45	45	45	45	45	45	45
Ultimate Barge/Ship Life	40	20	40	40	40	40	40	40	40
Tug Years Remaining (Financed if new)	18	15	27	24	18	17	8	19	19
Barge/Ship Years Remaining (Financed if new)	18	15	22	19	4	12	1	27	19
Financed Life Tug	9.0	7.5	13.5	12.0	9.0	8.5	4.0	9.5	9.5
Financed Life Ship/Barge	9.0	7.5	11.0	9.5	2.0	6.0	0.5	13.5	9.5
Daily Operating Costs									
Crew Size	9	10	9	10	8	8	8	7	8
Cost/Crew-day	325	350	350	325	325	325	325	325	325
Tug/Ship Crew Cost	2,925	3,500	3,150	3,250	2,600	2,600	2,600	2,275	2,600
Tug/Ship Stores, Supplies, Lube Oil	268	320	288	320	256	256	256	224	256
Tug/Ship Machinery Overhaul	75	76	64	76	66	68	58	51	60
Tug Yard Accrual	538	737	617	418	538	558	737	418	418
Tug Voyage Repairs	222	228	165	228	171	182	133	105	146
Tug Insurance	472	744	568	589	422	423	384	368	459
Barge Op Stores and Supplies	224	218	151	254	137	163	114	87	103
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Barge Self-Unloading M&R Accrual		303		403		303			
Barge Insurance	636	1,645	689	843	202	388	140	450	42
Barge/Ship Voyage Repairs	444	432	299	504	271	324	226	173	204
Management Cost	1,500	1,500	1,500	1,450	1,500	1,450	1,500	1,500	1,500
Total	8,294	10,819	7,996	9,388	7,131	7,616	7,025	5,875	6,213
Tug Cash Operating	5,269	6,355	5,803	5,606	4,802	4,812	4,918	4,191	4,689
Load rate	1.250								
	456								
Big Bend Delivery Analysis at Minimum Capital									
Time									
Voyage Time at Sea	5.8	3.5	4.2	5.1	5.6	5.4	6.3	5.8	5.43
Big Bend Unload in Free Days	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Load Rate as above	1.12	1.07	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Shifting Time at Big Bend	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Channel Maneuvering/Docking/Undocking	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
Delay at 15% of Voyage Time at Sea	15%	0.88	0.52	0.63	0.76	0.84	0.81	0.88	1.34

Tug					
Barge/Ship					
Linkage					
Type					
Am. Bureau of Shipping Classification					
Fuel					
Fixed					
Variable					
	<b>Cost of Capital Calculation</b>				
	<b>Pct of</b>	<b>Return</b>	<b>Tax</b>	<b>Capital</b>	
	Equity	50%	18%	0%	9%
	Debt	50%	8%	35%	3%
		100%	0%	0%	12%