



# Public Service Commission

CAPITAL CIRCLE OFFICE CENTER • 2540 SHUMARD OAK BOULEVARD  
TALLAHASSEE, FLORIDA 32399-0850

## -M-E-M-O-R-A-N-D-U-M-

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**DATE:** October 22, 1998

**TO:** DIRECTOR, DIVISION OF RECORDS AND REPORTING (BAYO)

**FROM:** DIVISION OF ELECTRIC AND GAS (WHEELER) *DAW ea*  
DIVISION OF LEGAL SERVICES (ELIAS) *RUE ALT*

**RE:** DOCKET NO. 981111-EI - PETITION FOR APPROVAL OF REVISED LIGHTING TARIFFS BY TAMPA ELECTRIC COMPANY

**AGENDA:** 11/3/98 - REGULAR AGENDA - TARIFF FILING - INTERESTED PERSONS MAY PARTICIPATE

**CRITICAL DATES:** NOVEMBER 6, 1998 60-DAY TARIFF SUSPENSION DATE

**SPECIAL INSTRUCTIONS:** NONE

**FILE NAME AND LOCATION:** S:\PSC\EAG\WP\981111.RCM

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### DISCUSSION OF ISSUES

**ISSUE 1:** Should the Commission approve Tampa Electric Company's proposed changes to its Street (SL-2) and Outdoor (OL-1 & OL-3) Lighting rate schedules?

**RECOMMENDATION:** Yes. [WHEELER]

**STAFF ANALYSIS:** Tampa Electric Company (TECO) has proposed a number of revisions to its street and outdoor lighting rate schedules. The changes include the addition of two new premium outdoor lighting (OL-3) fixtures and one new pole, and revision of the estimated kilowatt-hour usage (kWh) of some lighting fixtures to reflect updated manufacturers' specifications.

DOCUMENT NO. DATE

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**NEW FIXTURE AND POLE OFFERINGS**

TECO is proposing two new lighting fixtures and one new pole under its Premium Outdoor lighting (OL-3) schedule. The two new fixtures are 175-Watt metal halide decorative lamps. The proposed fixture rates include three components: a fixture charge, a maintenance charge, and an energy charge. TECO developed the new fixture charges by applying a fixed charge carrying rate to the installed cost of the fixtures. The maintenance charges were based on engineering maintenance costs and estimated failure rates. The energy charges were developed by multiplying the estimated energy usage of the lamps by the non-fuel energy rate for lighting of 2.077 cents per kilowatt hour. The proposed charges are as follows:

Charge	General Post Top	Salem Post Top
Fixture	\$14.78	\$10.81
Maintenance	\$5.84	\$5.29
Energy	\$1.56	\$1.56
Total	\$22.18	\$17.66

TECO is also proposing the addition of a fourteen-foot decorative Victorian pole with a monthly fixture charge of \$22.19 and a maintenance charge of \$.08. Staff has reviewed the supporting cost data used to develop the fixture and pole charges, and recommends that they be approved.

**REVISED KILOWATT-HOUR ESTIMATES**

TECO is proposing to update the estimated kWh usage of some of its lighting fixtures. These kWh estimates are applied to the non-fuel energy, fuel, capacity, environmental, and conservation charges to determine the monthly billing for the fixtures. Estimates are used since lighting is not metered. These revisions do not affect the rates charged for lighting, but only the billing determinants (i.e. the kWh) applied to the rates. The proposed update was prompted by a customer's inquiry regarding the accuracy of the current tariff estimates.

To arrive at the kWh usage of each light, the wattage drawn by the lamp is multiplied by an estimate of how many hours the light

will burn in a month. TECO is proposing to use new wattage estimates based on current manufacturers' specifications to determine the kWh usage of certain of its fixtures. The results of TECO's analysis indicate that the estimated kWh consumption for the 100, 150, 250, and 400 Watt High Pressure Sodium lights should be reduced, and that the consumption for the 1,000 Watt Metal Halide light should be slightly increased:

Lamp Size*	Current kWh Usage	Proposed Dusk to Dawn kWh Usage
100 Watt HPS	51	44
150 Watt HPS	70	66
250 Watt HPS	110	105
400 Watt HPS	170	163
1,000 Watt MH	381	383

\* The actual wattage used by the lighting fixtures is higher than the lamp wattages listed above. Thus a 100 watt lamp will actually draw in excess of 100 watts. This is due primarily to ballast losses.

The revised wattage estimates are attributable to increases in the efficiency of the lamps, and to the switching to higher quality fixtures. TECO indicates that they will periodically review and update the energy usage of its lighting to insure that their rates reflect the actual energy used.

The revised kWh usage amounts will result in minor changes to the monthly billing for street and outdoor lights. For example, the monthly billing for a 100 Watt streetlight will decrease by \$.30, from \$6.69 to \$6.39 based on the currently effective cost recovery clauses. Staff believes that the proposed changes are appropriate and should be approved, since they reflect the latest available information regarding the energy usage of the lighting fixtures.

DOCKET NO. 981111-11  
DATE: OCTOBER 22, 1998

**ISSUE 2:** What is the appropriate effective date for the revised tariffs?

**RECOMMENDATION:** The appropriate effective date for the revised tariffs is November 3, 1998. [WHEELER]

**STAFF ANALYSIS:** If the Commission approves the proposed tariff revisions at the November 3, 1998, Agenda Conference, they should become effective on that date.

**ISSUE 3:** Should this docket be closed?

**RECOMMENDATION:** Yes. If no person whose substantial interests are affected by the Commission's order in this docket files a protest within 21 days of the issuance of the order, this docket should be closed. If a protest is timely filed, the tariff should remain in effect pending resolution of the protest. [ELIAS]

**STAFF ANALYSIS:** If no person whose substantial interests are affected by the Commission's order in this docket files a protest within 21 days of the issuance of the order, this docket should be closed. If a protest is timely filed, the tariff should remain in effect pending resolution of the protest.

**RICHARD A. ZAMBO, P.A.**

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SEP 14 AM 8:55 GENERATION & ALTERNATIVE ENERGY  
ENERGY REGULATORY LAW

REGISTERED PROFESSIONAL ENGINEER  
REGISTERED PATENT ATTORNEY

RECORDS AND REPORTING

**FACSIMILE TRANSMISSION**

September 14, 1998

**TO:** Ms. Blanca S. Bayo, Director  
Division of Records & Reporting  
Florida Public Service Commission  
Capitol Circle Office Center  
2540 Shumard Oak Boulevard  
Tallahassee, FL 32399

FAX No. (850) 413-7118

**RE:** FPSC Docket No. 981111-EI  
Petition for Approval of Revised Lighting Tariffs by Tampa Electric Company.

*added  
9/14/98  
R. Zambo*

This document consists of 1 page(s), including this cover page. If you have problems receiving this transmission, please call. For a FAX reply, our number is (561) 220-9402.

**MESSAGE:**

Would you please add Rich Zambo, of the law firm of Richard A. Zambo, P.A., to the list of "interested parties" in the referenced proceeding. If you have any questions or require any further information in this regard, please do not hesitate to contact this office.

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