State of Florida



ORIGINAL

Public Service Commission

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Tallahassee, Florida 32399-0850

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

COMMISSION CLERK

DATE: April 3, 2006

TO: Blanca S. Bayó, Commission Clerk and Administrative Services Director

FROM: Lawrence D. Harris, Senior Attorney, Office of the General Counsel 594.

RE: Docket Numbers 060172-EU and 060173-EU

Attached is an Agenda for the April 17, 2006, Staff Rule Development Workshop and proposed amendments to Rules 25-6.034, 25-6.064, 25-6.078, and 25-6.115, Florida Administrative Code. Please file the Agenda and Rules 25-6.034, 25-6.064, and 25-6.078 in both Dockets 060172-EU and 060173-EU. Please file the proposed rule amendments for 25-6.115 in Docket No. 060172-EU only.

In addition, please provide copies of the filings to the distribution list for all electric utilities (Investor Owned, Municipal, and Cooperative), as well as those persons who have requested to be copied with filings in the above two dockets. Please contact me at 413-6076 if you have any questions.

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DOCUMENT NUMBER-DATE

02970 APR-38

Docket No. 060173-EU Re: Proposed amendments to rules regarding overhead

electric facilities to allow more stringent construction

standards than required by National Electric Safety Code.

Docket No. 060172-EU Re: Proposed rules governing placement of new electric

distribution facilities underground and conversion of existing overhead distribution facilities to underground facilities, to address effects of extreme weather events.

At the February 27, 2006 Internal Affairs, the Commission directed staff to open rulemaking proceedings to:

- (1) Address requiring distribution facility standards higher than the National Electric Safety Code (NESC); and
- (2) Look at the cost and reliability of undergrounding electric facilities, with specific emphasis on identifying areas/circumstances where underground facilities may be appropriate.

Participants should be prepared to address the following topics at the April 17, 2006 staff rule development workshop.

AGENDA

April 17, 2006 Staff Rule Development Workshop

- A. Should the National Electric Safety Code be adopted as the minimum construction standard for all electric utility overhead and underground transmission and distribution facilities, including substations?
- B. Should existing transmission and distribution facilities continue to be governed by the edition of the NESC in effect at the time of initial construction? Should existing facilities be upgraded to the current NESC standards at the time of major expansions, maintenance/rebuild, or relocation?
- C. Should electric utilities be required to exceed the minimum requirements of the NESC to address known "hot spots" subject to repeated storm damage? If so, under what circumstances? What reporting and demonstration of prudence should be required? How should costs be recovered?
- D. Should all electric utilities be required to adhere to the extreme wind loading standards contained in the NESC in the design and construction of all transmission and distribution facilities, including substations?
- E. Should all electric utilities be required to establish construction standards for underground facilities capable of protecting such facilities from flooding and storm surges in areas designated

as Category 3 Surge Zones by the Department of Community Affairs, Division of Emergency Management?

- F. How should the costs associated with meeting storm-hardened overhead and underground construction standards be reflected in Contribution-In-Aid-of-Construction (CIAC) calculations for (i) new construction, and (ii) conversion of existing overhead facilities to underground?
- G. What are the costs, benefits, and rate impacts of implementing storm-hardened overhead construction standards?
- H. What are the costs, benefits, and rate impacts of implementing storm-hardened underground construction standards?
- I. Other issues.
- J. Ongoing scheduling and procedural matters.

PART III -	- GENERAL	MANAG	EMENT	REQ	UIREMENTS
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25-6	034	Stan	dard	of Co	nstruction
43-0			uaiu	$\mathbf{v}_{\mathbf{i}} \mathbf{v}_{\mathbf{i}}$	moti uction

(1) Application and Scope. This rule is intended to define construction standards for
all overhead and underground electrical transmission and distribution facilities to ensure the
provision of adequate and reliable electric service for operational as well as emergency
purposes. The facilities of each the utility shall be constructed, installed, maintained and
operated in accordance with generally accepted engineering practices to assure, as far as is
reasonably possible, continuity of service and uniformity in the quality of service furnished.
This rule applies to all electric utilities, including municipal electric utilities and rural electric
cooperative utilities unless otherwise noted.

- (2) The Commission adopts and incorporates by reference the 2002 edition of the National Electric Safety Code (ANSI C-2), published August 1, 2001, as the minimum construction standards for transmission and distribution facilities built by each electric utility. Except as otherwise provided for in this rule, the standards shall be applicable to (a) new construction and (b) the expansion, rebuild, or relocation of existing facilities for which a work order number is assigned on or after the effective date of this rule. A copy of the 2002 NESC, ISBN number 0-7381-2778-7, may be obtained from the Institute of Electric and Electronic Engineers, Inc.(IEEE)
- (3) Distribution and transmission facilities constructed prior to the effective date of this rule shall be governed by the applicable edition of the National Electric Safety Code in effect at the time of the initial construction.
- (4) In addition to the requirements of Sections (5) and (6) of this rule, an electric utility may exceed the minimum requirements of the National Electric Safety Code (ANSI C-2) to enhance reliability and reduce restoration costs and outage times associated with extreme weather events. Each investor-owned electric utility electing to exceed minimum construction

standards shall identify and report the effects on total system cost and reliability and shall justify any resulting increase in rates charged to rate-payers.

- (5) Notwithstanding the exception contained in Section 25.250.C., Extreme Wind Loading, National Electric Safety Code, structures of 18 meters or less shall be designed to withstand extreme wind speeds as specified by Figure 250-2(d) of the 2002 edition of the National Electric Safety Code. The extreme wind loading standard shall be applicable to (a) new structures, (b) the expansion, rebuild, or relocation of existing facilities for which a work order is assigned on or after the effective date of this rule, and (c) targeted critical infrastructure facilities and major thoroughfares taking into account political and geographical boundaries and other applicable operational considerations.
- (6) Each electric utility shall establish construction standards for underground electrical facilities to enhance reliability and reduce restoration costs and outage times associated with extreme weather events. Such construction standards shall assure, to the extent practicable and cost-effective, that underground and supporting overhead electrical facilities are protected from flooding and storm surges in areas designated as Category 3 Surge Zones by the Department of Community Affairs, Division of Emergency Management. Such construction standards shall be applicable to (a) new construction, (b) the expansion, rebuild, or relocation of existing facilities for which a work order is issued on or after the effective date of this rule, and (c) conversion of existing overhead facilities to underground.
- (7) For initial installation, expansion, rebuild, or relocation of any investor-owned electric utility facilities, utilities are required to use easements, public streets, roads and highways which the utility has the legal right to occupy, and on public lands and private property across which the rights of way and easements satisfactory to the utility have been provided by the applicant by the time construction is required.
 - (8) For initial installation, expansion, rebuild, or relocation of any investor-owned CODING: Words <u>underlined</u> are additions; words in struck through type are deletions from existing law.

1	electric utility facilities, including the conversions of existing overhead facilities to
2	underground facilities, all facilities shall be placed at the front edge of the property, unless the
3	utility demonstrates an operational need to use another location.
4	(2) The Commission has reviewed the American National Standard Code for
5	Electricity Metering, 6th edition, ANSI C-12, 1975, and the American National Standard
6	requirements, Terminology and Test Code for Instrument Transformers, ANSI-57.13, and has
7	found them to contain reasonable standards of good practice A utility that is in compliance
8	with the applicable provisions of these publications, and any variations approved by the
9	Commission, shall be deemed by the Commission to have facilities constructed and installed
10	in accordance with generally accepted engineering practices.
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PART IV – GENERAL SERVICE PROVISIONS 25-6.064 Extension of Facilities; Contribution in Aid of Construction: Installation of New or Upgraded Facilities (1) Purpose. Application and scope: The purpose of this rule is to establish a uniform procedure by which investor-owned electric utilities subject to this rule will calculate amounts due as contributions in aid of construction contribution-in-aid-of-construction (CIAC) from customers who require new facilities, other than standard installations, or for upgrades to existing facilities resulting from changes in the customer's demand on the system, extensions of distribution facilities in order to receive electric service, except as provided in Rule 25-6.078.(2) Applicability. This rule applies to all investor owned electric utilities in Florida as defined in Section 366.02, F.S. Contributions in aid of construction Contribution-in-aid-ofconstruction shall be calculated as set forth below: 4 x expected annual 4 x nonfuel energy charge per Cost of kWh x expected incremental demand charge revenues CIAC installing the annual kWh sales over the from incremental sales over facilities new facilities the new facilities (a) The cost of all new line extensions shall be the estimated work order job cost. (b) There shall be no charge for the overhead transformer, service drop and meter for

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- standard installations.
- (c) The cost of new standard service underground laterals shall be the difference between the cost of a comparable overhead service drop and the cost of undergrounding the lateral.

1	<u>(c</u>	I (l	the cost of upgrades to existing facilities shall be th	e estimated	work order job
2	cost including any costs of removal less any salvage.				
3	<u>(e</u>	e) F	or customers in rate classes that pay only energy ch	narges, dem	and charge
4	revenues	sha	ll be zero.		
5	<u>(1</u>) E2	spected demand charge revenues and energy sales s	shall be bas	ed on an annual
6	period er	<u>din</u>	g not more than five years after the extension is pla	ced in serv	ice.
7	(:	3) D	efinitions. Actual or estimated job cost means the	actual cost	of providing the
8	specified	line	extension facilities, calculated after the extension	is complet	ed, or the estimated
9	cost of p	rovi	ding the specified facilities before the extension is	completed.	
10	(4	1)-Ir	developing the policy for extending overhead dist	ribution fac	ilities to customers,
11	the following formulas shall be used to determine the contribution in aid of construction owed				
12	by the customer.				
13	(a) For customers in rate classes that pay only energy charges, i.e., those that do not				
14	pay dem	and	charges, the CIAC shall be calculated as follows:		
15			(Actual or estimated job cost for new poles and	(4 x non	fuel energy charge
16	CIACoh	=	conductors and appropriate fixtures require to	per KWI	I x expected annual
17	CIT ICOM		provide service, excluding transformers, service	KWH sal	es over the new line
18			drops, and meters)		facilities)
19					
20	(b) F	or customers in rate classes that pay both energy ch	arges and o	lemand charges, the
21	CIAC sh	all-l	oe calculated as follows:		
22	-		(Actual or estimated job cost for (4 x nor	nfuel	(4 x expected
23	CIACoh	=	new poles and conductors and - energy cha	erge per	annual demand
24			appropriate fixtures require to KWH x ex	epected	charge revenues
25		l			

1			provide service, excluding	annual KWH sales	from sales over
2			transformers, service drops, and	over the new line)	the new line)
3			meters)		
4					
5	(4	e) E	xpected demand charge revenues and	l energy sales shall be bas	ed on an annual
6	period er	ıdin	g not more than five years after the e	xtension is placed in serv	i ce.
7	(5) I1	n developing the policy for extending	underground distribution	r facilities to
8	custome	rs, t	he following formula shall be used to	determine the contribution	on in aid of
9	construc	tion	.		
10			(Estimated difference between the	cost of providing the facili	ities
11			distribution line extension, includ	ing not only the distribution	on CIAC _{oh}
12	CIACug	=	line extension itself but also the tr	ansformer, the service dro	op, - (as
13			and other necessary fixtures, with t	underground facilities vs.	the above)
14			cost of providing service usi	ng overhead facilities)	
15	:				
16	6) N	othing in this rule shall be construed	as prohibiting a utility fro	m collecting from a
17	customer the total difference in cost for providing underground service instead of overhead				
18	service t	o th	at customer.		
19	(7) In the event that amounts are collected for certain distribution facilities via the				
20	URD differential tariff as permitted by Rule 25-6.078, F.A.C., that would also be collected				
21	pursuant to this rule, the utility shall give an appropriate credit for such amounts collected via				
22	the URE) di f	fferential tariff when calculating the l	ine extension CIAC due p	oursuant to this rule.
23		<u>4)(</u> 8	Each utility shall apply the above f	ormulas <u>in Paragraph (2)</u>	of this rule
24	uniform	ly to	residential, commercial and industri	al customers requiring red	questing <u>new or</u>
25	upgraded facilitiesline extensions.				

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from existing law.

1	shall be filed by each utility as part of its tariffs. This policy The tariffs shall have uniform
2	application and shall be nondiscriminatory.
3	(10)(14) If a utility and applicant are unable to agree in regard to an extension on the
4	CIAC amount, either party may appeal to the Commission for a review.
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PART V RULES FOR RESIDENTIAL ELECTRIC UNDERGROUND EXTENSIONS 25-6.078 Schedule of Charges.

- (1) Each utility shall file with the Commission a written policy that shall become a part of the utility's tariff rules and regulations on the installation of underground facilities in new subdivisions. Such policy shall be subject to review and approval of the Commission and shall include an Estimated Average Cost Differential, if any, and shall state the basis upon which the utility will provide underground service and its method for recovering the difference in cost of an underground system and an equivalent overhead system from the applicant at the time service is extended. The charges to the applicant shall not be more than the estimated difference in cost of an underground system and an equivalent overhead system.
- (2) For the purposes of calculating the Estimated Average Cost Differential, costs shall be estimated based on the requirements of Rule 25-6.034, Standards of Construction.
- (3)(2) On or before October 15th of each year each utility shall file with the Commission's Division of Economic Regulation Form PSC/ECR 13-E, Schedule 1, using current material and labor costs. If the cost differential as calculated in Schedule 1 varies from the Commission-approved differential by plus or minus 10 percent or more, the utility shall file a written policy and supporting data and analyses as prescribed in subsections (1), (43) and (54) of this rule on or before April 1 of the following year; however, each utility shall file a written policy and supporting data and analyses at least once every three years.
- (4)(3) Differences in operating and maintenance costs between underground and overhead systems, if any, shall may be taken into consideration in determining the overall Estimated Average Cost Differential.
- (5)(4) Detailed supporting data and analyses used to determine the Estimated Average Cost Differential for underground and overhead distribution systems shall be concurrently

1 filed by the utility with the Commission and shall be updated using cost data developed from 2 the most recent 12-month period. The utility shall record these data and analyses on Form 3 PSC/ECR 13-E (10/97). Form PSC/ECR 13-E, entitled "Overhead/Underground Residential 4 Differential Cost Data" is incorporated by reference into this rule and may be obtained from 5 the Division of Economic Regulation, 2540 Shumard Oak Boulevard, Tallahassee, Florida 6 32399-0850, (850) 413-6900. 7 (6)(5) Service for a new multiple-occupancy building shall be constructed underground 8 within the property to be served to the point of delivery at or near the building by the utility at 9 no charge to the applicant, provided the utility is free to construct its service extension or 10 extensions in the most economical manner. 11 (7)(6) The recovery of the cost differential as filed by the utility and approved by the 12 Commission may not be waived or refunded unless it is mutually agreed by the applicant and 13 the utility that the applicant will perform certain work as defined in the utility's tariff, in which 14 case the applicant shall receive a credit. Provision for the credit shall be set forth in the 15 utility's tariff rules and regulations, and shall be no more in amount than the total charges 16 applicable. 17 (8)(7) The difference in cost as determined by the utility in accordance with its tariff 18 shall be based on full use of the subdivision for building lots or multiple-occupancy buildings. 19 If any given subdivision is designed to include large open areas, the utility or the applicant 20 may refer the matter to the Commission for a special ruling as provided under Rule 25-6.083, 21 F.A.C. 22 (9)(8) The utility shall not be obligated to install any facilities within a subdivision 23 until satisfactory arrangements for the construction of facilities and payment of applicable 24 charges, if any, have been completed between the applicant and the utility by written

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agreement. A standard agreement form shall be filed with the company's tariff.

1	(10)(9) Nothing herein contained shall be construed to prevent any utility from
2	assuming all cost differential of providing underground distribution systems, provided,
3	however, that such assumed cost differential shall not be chargeable to the general body of
4	rate payers, and any such policy adopted by a utility shall have uniform application throughout
5	its service area.
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1	PART VII UNDERGROUND ELECTI
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3	25-6.115 Facility Charges fo
4	Facilities of Public Distribu
5	(1) Each public utility
6	for standard applications addr
7	electric distribution facilities
8	The tariff shall include the ge
9	applicant may enter into a cor
10	existing overhead electric fac
11	deposit amounts shall approx
	facilities serving each of the f
12	residential, existing low-dens
13	single family home subdivision
14	(2) For the purpose of
15	undergrounding of existing or
16	developer requests local gove
17	deemed the applicant for purp
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19	(3) Nothing in the tari
20	or a portion of the undergroun
21	(a) Such work meets t
22	(b) The public utility
23	(c) Such agreement is
24	greater costs.
25	(4) Nothing in the tari

PART VII UNDERGROUND ELECTRIC DISTRIBUTION FACILITY CHARGES

25-6.115 Facility Charges for <u>Conversion of Existing Overhead</u> Providing Underground Facilities of Public Distribution Facilities-Excluding New Residential Subdivisions.

(1) Each public utility shall file a tariff showing the non-refundable deposit amounts for standard applications addressing new construction and the conversion of existing overhead electric distribution facilities to underground facilities excluding new residential subdivisions. The tariff shall include the general provisions and terms under which the public utility and applicant may enter into a contract for the purpose of new construction or convertingsion of existing overhead electric facilities to underground electric facilities. The non-refundable deposit amounts shall approximate be consistent with the engineering costs for underground facilities serving each of the following scenarios: urban commercial, urban residential, rural residential, existing low-density single family home subdivision and existing high-density single family home subdivision service areas.

- (2) For the purpose of this rule, the applicant is the person or entity seeking the undergrounding of existing overhead electric distribution facilities. In the instance when a developer requests local government development approval, the local government shall not be deemed the applicant for purposes of this rule.
- (3) Nothing in the tariff shall prevent the applicant from constructing and installing all or a portion of the underground distribution facilities provided:
 - (a) Such work meets the public utility's construction standards;
 - (b) The public utility will own and maintain the completed distribution facilities; and
- (c) Such agreement is not expected to cause the general body of ratepayers to incurgreater costs.
 - (4) Nothing in the tariff shall prevent the applicant from requesting a non-binding cost

1 estimate which shall be provided to the applicant free of any charge or fee. 2 (5) Upon an applicant's request and payment of the deposit amount, a public utility 3 shall provide a binding cost estimate for providing underground electric service. 4 (6) An applicant shall have at least 180 days from the date the estimate is received, to 5 enter into a contract with the public utility based on the binding cost estimate. The deposit 6 amount shall be used to reduce the charge as indicated in subsection (7) only when the 7 applicant enters into a contract with the public utility within 180 days from the date the 8 estimate is received by the applicant. 9 (7) The charge paid by the applicant shall be the charge for the proposed underground 10 facilities as indicated in subsection (108) minus the charge for overhead facilities as indicated 11 in subsection (149) minus the non-refundable deposit amount. The applicant shall not be 12 required to pay an additional amount which exceeds 10 percent of the binding cost estimate. 13 (8) For the purpose of this rule, the charge for the proposed underground facilities shall 14 include: 15 (a) The estimated cost of construction of the underground distribution facilities 16 including the construction cost of the underground service lateral(s) to the meter(s) of the 17 customer(s); and 18 (b) For conversions, $t\underline{T}$ he estimated remaining net book value of the existing facilities 19 to be removed less the estimated net salvage value of the facilities to be removed. 20 (9) For the purpose of this rule, the charge for overhead facilities shall be the estimated 21 construction cost to build new overhead facilities, including the service drop(s) to the meter(s) 22 of the customer(s). Estimated construction costs shall be based on the requirements of Rule 25-6.034, Standards of Construction. 23 24 (10) An applicant to a public utility for construction of underground distribution 25 facilities may petition the Commission pursuant to Rule 25-22.032, F.A.C. CODING: Words underlined are additions; words in struck through type are deletions

from existing law.

1	(11) Nothing in this rule shall be construed to grant any electric utility any right, title
2	or interest in real property owned by a local government.
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