

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

In re: Petition for approval of 2017 revisions to underground residential distribution tariffs, by Gulf Power Company.	DOCKET NO. 20170074-EI ORDER NO. PSC-2017-0356-TRF-EI ISSUED: September 20, 2017
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The following Commissioners participated in the disposition of this matter:

JULIE I. BROWN, Chairman
ART GRAHAM
RONALD A. BRISÉ
DONALD J. POLMANN

ORDER APPROVING REVISED
UNDERGROUND RESIDENTIAL DISTRIBUTION TARIFFS

BY THE COMMISSION:

Background

On March 31, 2017, Gulf Power Company (Gulf or Company) filed a petition for approval of 2017 revisions to its underground residential distribution (URD) tariffs. The URD tariffs apply to new residential subdivisions and represent the additional costs Gulf incurs to provide underground distribution service in place of overhead service. The proposed (legislative version) URD tariffs are contained in Attachment A to this Order. Gulf's current charges were approved in Order No. PSC-15-0274-TRF-EI (2015 Order).¹

This Commission suspended Gulf's proposed tariffs in Order No. PSC-17-0193-PCO-EI.² Gulf responded to Commission staff's first data request on June 2, 2017, and to Commission staff's second data request on July 14, 2017. We have jurisdiction over this matter pursuant to Sections 366.03, 366.04, 366.05, and 366.06, Florida Statutes (F.S.).

Decision

Rule 25-6.078, Florida Administrative Code (F.A.C.), defines investor-owned utilities' (IOU) responsibilities for filing updated URD tariffs. Gulf filed the instant petition pursuant to subsection (3) of the rule, which requires IOUs to seek our approval of updated URD tariff

¹ Order No. PSC-15-0274-TRF-EI, issued July 6, 2015, in Docket No. 150112-EI, In re: Request by Gulf Power Company to modify its underground residential differential tariffs.

² Order No. PSC-17-0193-PCO-EI, issued May 19, 2017, in Docket No. 170074-EI, In re: Petition for approval of 2017 revisions to underground residential distribution tariffs, by Gulf Power Company.

charges if the utility's per-lot cost differentials between overhead and underground service based on current material and labor costs, vary by more than 10 percent from the existing Commission-approved differentials. All IOUs are required to file supporting data and analyses for URD tariffs at least once every three years.

The URD tariffs provide standard charges for underground service in new residential subdivisions and represent the additional costs, if any, the utility incurs to provide underground service in place of standard overhead service. The cost of standard overhead construction is recovered through base rates from all ratepayers. In lieu of overhead construction, customers have the option of requesting underground facilities. Any additional cost is paid by the customer as contribution-in-aid-of construction (CIAC). Typically, the URD customer is the developer of a subdivision.

Gulf's URD charges are based on two standard model subdivisions: a 210-lot low density subdivision and a 176-lot high density subdivision. While actual construction may differ from the model subdivisions, the model subdivisions are designed to reflect average overhead and underground subdivisions.

Table 1 shows the current and proposed URD differentials for the low and high density subdivisions. The charges shown are per-lot charges. Gulf's URD tariffs also provide for reduced charges if the customer chooses to supply and/or install the primary and secondary trench and duct system.

Table 1
Comparison of URD Differential per Lot

	Current Differential	Proposed Differential
Low Density	\$402	\$498 ³
High Density	\$521	\$562

Source: 2015 Order and 2017 Petition

As shown in Table 1, the proposed URD differentials show an increase for both model subdivisions. The calculations of the proposed URD charges include updated labor and material costs, as well as updated operational costs.

Updated Labor and Material Costs

The installation costs of both overhead and underground facilities include the labor and material costs to provide primary, secondary, and service distribution lines, as well as transformers. The cost to provide overhead service also includes poles. The cost to provide underground service includes the cost of trenching and backfilling.

³ \$498 is calculated as follows: \$720 (Table 1-2) - \$222 (Table 1-3) = \$498.

Gulf stated, in response to Commission staff's data request, that there have not been any design changes to either the low or high density subdivision since 2015. The mix of Gulf employee and contractor labor remains the same as it was in 2015. Gulf employees perform most overhead construction activities while contractor labor is used for underground construction. Both Gulf and contractor labor rates increase as specified in their respective contracts.

Total labor and material costs increased from 2015 to 2017 by a larger amount for underground construction than for overhead construction, resulting in an increase in the differential. The driver of the increase is material cost. Gulf explained in its response to Commission staff's data request that since 2015 the cost of underground material outpaced the cost of material used in overhead construction. As an example, Gulf stated that the cost of underground padmount transformers increased while the cost of overhead transformers remained stable.

Loading factors increased from 2015 to 2017. The Stores Handling loading factor increased from 4 percent in 2015 to 17 percent in this filing because of a higher volume of transmission material purchases. The Stores Handling factor includes supervision, labor, and expenses incurred for stores-related activities such as the operation of general storerooms. Gulf explained that the increase in the Engineering loading factor from 48 to 52 percent is due to increases in its engineering labor rate.

Table 2 below compares total 2015 and 2017 per-lot labor and material costs for the two subdivisions.

Table 2
Labor and Material Costs per Lot

	2015 Costs	2017 Costs	Difference
Low Density			
Underground Labor/Material Costs	\$2,307	\$2,460	\$153
Overhead Labor/Material Costs	\$1,715	\$1,740	\$25
Per lot Differential	\$592	\$720	\$128
High Density			
Underground Labor/Material Costs	\$1,895	\$1,976	\$81
Overhead Labor/Material Costs	\$1,331	\$1,352	\$21
Per lot Differential	\$564	\$624	\$60

Source: 2015 Order and 2017 Petition

Updated Operational Costs

Rule 25-6.078(4), F.A.C., requires that the differences in net present value (NPV) of operational costs between overhead and underground systems, including average historical storm restoration costs over the life of the facilities, be included in the URD charge. The inclusion of the operational cost is intended to capture longer term costs and benefits of undergrounding.

Operational costs include operations and maintenance costs and capital costs and represent the cost differential between maintaining and operating an underground versus an overhead system over the life of the facilities. The inclusion of the storm restoration cost in the URD differential lowers the differential, since an underground distribution system generally incurs less damage than an overhead system as a result of a storm and, therefore, less restoration costs when compared to an overhead system. Gulf’s operational costs, last updated for the 2015 filing, represent a five-year average (2012 – 2016). The methodology used by Gulf in this filing for calculating the NPV of operational costs was approved in Order No. PSC-12-0531-TRF-EI.⁴

Gulf’s NPV calculation used a 32-year life of the facilities and a 6.69 percent discount rate. Operational costs may vary among IOUs as a result of differences in size of service territory, miles of coastline, regions subject to extreme winds, age of the distribution system, or construction standards.

Table 3 below compares the 2015 and 2017 NPV calculations of operational and storm restoration cost differentials between overhead and underground systems on a per lot basis. As Table 3 shows, there are small differences in the differentials from 2015 to 2017.

Table 3
NPV of Operational Costs Differential per Lot

	2015 Calculation	2017 Calculation	Difference
Low Density			
Underground NPV – Operational Costs	\$436	\$416	(\$20)
Overhead NPV- Operational Costs	\$626	\$638	\$12
Per lot Differential	(\$190)	(\$222)	(\$32)
High Density			
Underground NPV – Operational Costs	\$274	\$261	(\$13)
Overhead NPV – Operational Costs	\$317	\$323	\$6
Per lot Differential	(\$43)	(\$62)	(\$19)

Source: 2015 Order and 2017 Petition

Other Proposed Tariff Changes

In addition to the proposed tariff changes discussed above, Gulf proposed modifications to the reduced URD charges paid by customers who either supply and install the primary and secondary trench and duct system (system) or who only install the system. In addition, Gulf proposed modifications to the charges that apply when a three-phase lift station for sewage is requested in a new residential subdivision. Finally, Gulf proposed modifications to binding cost estimates for URD conversions.

⁴ Order No. PSC-12-0531-TRF-EI, issued October 4, 2012, in Docket No. 120075-EI, In re: Request by Gulf Power Company to modify its underground residential differential tariffs.

Conclusion

This Commission has reviewed Gulf's proposed URD tariffs and associated charges, its accompanying work papers, and responses to Commission staff's data requests. We find that the proposed URD tariffs and associated charges are reasonable. Therefore, Gulf's proposed URD tariffs and associated charges, as shown in Attachment A are hereby approved, effective September 7, 2017.

Based on the foregoing, it is

ORDERED by the Florida Public Service Commission that Gulf Power Company's proposed underground residential distribution tariffs and associated charges, as discussed in the body of this Order, are hereby approved. It is further

ORDERED that the effective date of Gulf Power Company's tariff revisions shall be September 7, 2017. It is further

ORDERED that if a protest is filed within 21 days of issuance of the Order, the tariffs shall remain in effect, with any revenues held subject to refund, pending resolution of the protest. It is further

ORDERED that if no timely protest is filed, this docket shall be closed upon the issuance of a Consummating Order.

By ORDER of the Florida Public Service Commission this 20th day of September, 2017.



HONG WANG
Chief Deputy Commission Clerk
Florida Public Service Commission
2540 Shumard Oak Boulevard
Tallahassee, Florida 32399
(850) 413-6770
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Copies furnished: A copy of this document is provided to the parties of record at the time of issuance and, if applicable, interested persons.

NOTICE OF FURTHER PROCEEDINGS

The Florida Public Service Commission is required by Section 120.569(1), Florida Statutes, to notify parties of any administrative hearing or judicial review of Commission orders that is available under Sections 120.57 or 120.68, Florida Statutes, as well as the procedures and time limits that apply. This notice should not be construed to mean all requests for an administrative hearing or judicial review will be granted or result in the relief sought.

Mediation may be available on a case-by-case basis. If mediation is conducted, it does not affect a substantially interested person's right to a hearing.

The Commission's decision on this tariff is interim in nature and will become final, unless a person whose substantial interests are affected by the proposed action files a petition for a formal proceeding, in the form provided by Rule 28-106.201, Florida Administrative Code. This petition must be received by the Office of Commission Clerk, 2540 Shumard Oak Boulevard, Tallahassee, Florida 32399-0850, by the close of business on October 11, 2017.

In the absence of such a petition, this Order shall become final and effective upon the issuance of a Consummating Order.

Any objection or protest filed in this docket before the issuance date of this order is considered abandoned unless it satisfies the foregoing conditions and is renewed within the specified protest period.



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- 6.2.8 DAMAGE TO COMPANY'S EQUIPMENT. The Applicant shall be responsible to ensure that the Company's distribution facilities once installed, are not damaged, destroyed, or otherwise disturbed during the construction of the project. This responsibility shall extend not only to those in his employ, but also to his subcontractors. Should damage occur, the Applicant shall be responsible for the full cost of repairs.
- 6.2.9 PAYMENT OF CHARGES. The Company shall not be obligated to install any facilities until payment of applicable charges, if any, has been completed.

6.3 UNDERGROUND DISTRIBUTION FACILITIES FOR
 NEW RESIDENTIAL SUBDIVISIONS

- 6.3.1 AVAILABILITY. After receipt of proper application and compliance by the Applicant with applicable Company rules and procedures, the Company will install underground distribution facilities to provide single phase service to new residential subdivisions of five (5) or more building lots.
- 6.3.2 CONTRIBUTION BY APPLICANT.
 (a) Prior to such installations, the Applicant and the Company will enter into an agreement outlining the terms and conditions of installation, and the Applicant will be required to pay the Company in advance the entire cost as described below:

<u>Option</u>	<u>Low Density Subdivision (\$ per lot)</u>	<u>High Density Subdivision (\$ per lot)</u>
1. Gulf supplies and installs all primary, secondary, and service trench, duct, and cable.	\$402 <u>498</u>	\$524 <u>562</u>
2. Applicant installs primary and secondary trench and duct system. Gulf supplies primary and secondary duct and supplies and installs service duct. Gulf supplies and installs primary, secondary, and service cable.	\$200 <u>307</u>	\$384 <u>428</u>
3. Applicant supplies and installs primary and secondary trench and duct. Gulf supplies primary and secondary cable. Gulf supplies and installs service duct and cable.	\$00 <u>181</u>	\$280 <u>327</u>

All construction done by the Applicant must meet the Company's specifications. All installations must be approved by the Company's authorized representative.

- (b) The Applicant is required to pay a charge per foot and a cost differential for transformers and services (see "Three Phase Lift Station" charts below) for three phase commercial loads requiring 120/240 volt open delta, 120/208 volt wye, or 277/480 volt wye service in new residential subdivisions for each three phase service. This average cost will be added to the advanced payment in 6.3.2(a) above.



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6.3.2 (continued)

THREE PHASE LIFT STATION
COSTS TO PROVIDE 3 PH SVC TO LIFT STATION W/IN TYPICAL SUBDIVISION - OPTION 1

CUSTOMER REQUEST: 120/208 or 277/480

MOTOR SIZE	AVAILABLE UNDERGROUND FACILITIES		
	SINGLE PHASE	TWO PHASES	THREE PHASES
< 5HP	\$24,862 ^{1,70} per ft plus 3ph padmount tx, pad, and ug service minus one oh transformer, cutout, arrester, and service	\$46,201 ^{5,18} per ft plus 3ph padmount tx, pad, and ug service minus one oh transformer, cutout, arrester, and service	\$0 cost per ft plus 3ph padmount tx, pad, and ug service minus one oh transformer, cutout, arrester, and service
5HP < X < 25HP	\$8,088 ⁸⁸ per ft plus 3ph padmount tx, pad, and ug service minus 2 oh transformers, 2 cutouts, 2 arresters, and service	\$40,841 ^{0,80} per ft plus 3ph padmount tx, pad, and ug service minus 2 oh transformers, 2 cutouts, 2 arresters, and service	\$0 cost per ft plus 3ph padmount tx, pad, and ug service minus 2 oh transformers, 2 cutouts, 2 arresters, and service
> 25HP	\$4,604 ⁵¹ per ft plus 3ph padmount tx, pad, and ug service minus 3 oh transformers, 3 cutouts, 3 arresters, cluster mt, and service	\$2,422 ³⁸ per ft plus 3ph padmount tx, pad, and ug service minus 3 oh transformers, 3 cutouts, 3 arresters, cluster mt, and service	\$0 cost per ft plus 3ph padmount tx, pad, and ug service minus 3 oh transformers, 3 cutouts, 3 arresters, cluster mt, and service

CUSTOMER REQUEST: 120/240 OPEN DELTA

MOTOR SIZE	AVAILABLE UNDERGROUND FACILITIES		
	SINGLE PHASE	TWO PHASES	THREE PHASES
< 5HP	\$11,041 ^{0,80} per ft plus 2 padmount tx, 2 pads, and ug service minus one oh transformer, cutout, arrester, and service	\$0 cost per ft plus 2 padmount tx, 2 pads, and ug service minus one oh transformer, cutout, arrester, and service	\$0 cost per ft plus 2 padmount tx, 2 pads, and ug service minus one oh transformer, cutout, arrester, and service
5HP < X < 25HP	\$2,082 ¹⁵ per ft plus 2 padmount tx, 2 pads, and ug service minus 2 oh transformers, 2 cutouts, 2 arresters, and service	\$0 cost per ft plus 2 padmount tx, 2 pads, and ug service minus 2 oh transformers, 2 cutouts, 2 arresters, and service	\$0 cost per ft plus 2 padmount tx, 2 pads, and ug service minus 2 oh transformers, 2 cutouts, 2 arresters, and service
> 25HP	\$2,082 ¹⁵ per ft plus 2 padmount tx, 2 pads, and ug service minus 2 oh transformers, 2 cutouts, 2 arresters, and service	\$0 cost per ft plus 2 padmount tx, 2 pads, and ug service minus 2 oh transformers, 2 cutouts, 2 arresters, and service	\$0 cost per ft plus 2 padmount tx, 2 pads, and ug service minus 2 oh transformers, 2 cutouts, 2 arresters, and service

ISSUED BY: S. W. Connally, Jr.



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~~Fifth~~Sixth Revised Sheet No. 4.26.1
 Canceling ~~Fourth~~Fifth Revised Sheet No. 4.26.1

PAGE	EFFECTIVE DATE June 18, 2015
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6.3.2 (continued)

THREE PHASE LIFT STATION
COSTS TO PROVIDE 3 PH SVC TO LIFT STATION W/IN TYPICAL SUBDIVISION - OPTION 2

CUSTOMER REQUEST: 120/208 or 277/480

MOTOR SIZE	AVAILABLE UNDERGROUND FACILITIES		
	SINGLE PHASE	TWO PHASES	THREE PHASES
< 5HP	\$31,442 20,98 per ft plus 3ph padmount tx, pad, and ug service minus one oh transformer, cutout, arrester, and service	\$44,001 14,79 per ft plus 3ph padmount tx, pad, and ug service minus one oh transformer, cutout, arrester, and service	\$0 cost per ft plus 3ph padmount tx, pad, and ug service minus one oh transformer, cutout, arrester, and service
5HP < X < 25HP	\$8,268 18 per ft plus 3ph padmount tx, pad, and ug service minus 2 oh transformers, 2 cutouts, 2 arresters, and service	\$40,431 10,41 per ft plus 3ph padmount tx, pad, and ug service minus 2 oh transformers, 2 cutouts, 2 arresters, and service	\$0 cost per ft plus 3ph padmount tx, pad, and ug service minus 2 oh transformers, 2 cutouts, 2 arresters, and service
> 25HP	\$2,793 78 per ft plus 3ph padmount tx, pad, and ug service minus 3 oh transformers, 3 cutouts, 3 arresters, cluster mt, and service	\$2,021 97 per ft plus 3ph padmount tx, pad, and ug service minus 3 oh transformers, 3 cutouts, 3 arresters, cluster mt, and service	\$0 cost per ft plus 3ph padmount tx, pad, and ug service minus 3 oh transformers, 3 cutouts, 3 arresters, cluster mt, and service

CUSTOMER REQUEST: 120/240 OPEN DELTA

MOTOR SIZE	AVAILABLE UNDERGROUND FACILITIES		
	SINGLE PHASE	TWO PHASES	THREE PHASES
< 5HP	\$40,741 10,57 per ft plus 2 padmount tx, 2 pads, and ug service minus one oh transformer, cutout, arrester, and service	\$0 cost per ft plus 2 padmount tx, 2 pads, and ug service minus one oh transformer, cutout, arrester, and service	\$0 cost per ft plus 2 padmount tx, 2 pads, and ug service minus one oh transformer, cutout, arrester, and service
5HP < X < 25HP	\$4,761 81 per ft plus 2 padmount tx, 2 pads, and ug service minus 2 oh transformers, 2 cutouts, 2 arresters, and service	\$0 cost per ft plus 2 padmount tx, 2 pads, and ug service minus 2 oh transformers, 2 cutouts, 2 arresters, and service	\$0 cost per ft plus 2 padmount tx, 2 pads, and ug service minus 2 oh transformers, 2 cutouts, 2 arresters, and service
> 25HP	\$1,751 81 per ft plus 2 padmount tx, 2 pads, and ug service minus 2 oh transformers, 2 cutouts, 2 arresters, and service	\$0 cost per ft plus 2 padmount tx, 2 pads, and ug service minus 2 oh transformers, 2 cutouts, 2 arresters, and service	\$0 cost per ft plus 2 padmount tx, 2 pads, and ug service minus 2 oh transformers, 2 cutouts, 2 arresters, and service

ISSUED BY: S. W. Connally, Jr.



Section No. IV
~~Fifth~~Sixth Revised Sheet No. 4.26.2
 Canceling ~~Fourth~~Fifth Revised Sheet No. 4.26.2

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6.3.2 (continued)

THREE PHASE LIFT STATION
COSTS TO PROVIDE 3 PH SVC TO LIFT STATION W/IN TYPICAL SUBDIVISION - OPTION 3

CUSTOMER REQUEST: 120/208 or 277/480

MOTOR SIZE	AVAILABLE UNDERGROUND FACILITIES		
	SINGLE PHASE	TWO PHASES	THREE PHASES
< 5HP	\$4,864.18 <u>18.26</u> per ft plus 3ph padmount tx, pad, and ug service minus one oh transformer, cutout, arrester, and service	\$42,6413.43 per ft plus 3ph padmount tx, pad, and ug service minus one oh transformer, cutout, arrester, and service	\$0 cost per ft plus 3ph padmount tx, pad, and ug service minus one oh transformer, cutout, arrester, and service
5HP < X < 25HP	\$6,735.44 per ft plus 3ph padmount tx, pad, and ug service minus 2 oh transformers, 2 cutouts, 2 arresters, and service	\$0,460.05 per ft plus 3ph padmount tx, pad, and ug service minus 2 oh transformers, 2 cutouts, 2 arresters, and service	\$0 cost per ft plus 3ph padmount tx, pad, and ug service minus 2 oh transformers, 2 cutouts, 2 arresters, and service
> 25HP	\$4,261.07 per ft plus 3ph padmount tx, pad, and ug service minus 3 oh transformers, 3 cutouts, 3 arresters, cluster mt, and service	\$0,770.61 per ft plus 3ph padmount tx, pad, and ug service minus 3 oh transformers, 3 cutouts, 3 arresters, cluster mt, and service	\$0 cost per ft plus 3ph padmount tx, pad, and ug service minus 3 oh transformers, 3 cutouts, 3 arresters, cluster mt, and service

CUSTOMER REQUEST: 120/240 OPEN DELTA

MOTOR SIZE	AVAILABLE UNDERGROUND FACILITIES		
	SINGLE PHASE	TWO PHASES	THREE PHASES
< 5HP	\$0,449.21 per ft plus 2 padmount tx, 2 pads, and ug service minus one oh transformer, cutout, arrester, and service	\$0 cost per ft plus 2 padmount tx, 2 pads, and ug service minus one oh transformer, cutout, arrester, and service	\$0 cost per ft plus 2 padmount tx, 2 pads, and ug service minus one oh transformer, cutout, arrester, and service
5HP < X < 25HP	\$0,490.46 per ft plus 2 padmount tx, 2 pads, and ug service minus 2 oh transformers, 2 cutouts, 2 arresters, and service	\$0 cost per ft plus 2 padmount tx, 2 pads, and ug service minus 2 oh transformers, 2 cutouts, 2 arresters, and service	\$0 cost per ft plus 2 padmount tx, 2 pads, and ug service minus 2 oh transformers, 2 cutouts, 2 arresters, and service
> 25HP	\$0,490.46 per ft plus 2 padmount tx, 2 pads, and ug service minus 2 oh transformers, 2 cutouts, 2 arresters, and service	\$0 cost per ft plus 2 padmount tx, 2 pads, and ug service minus 2 oh transformers, 2 cutouts, 2 arresters, and service	\$0 cost per ft plus 2 padmount tx, 2 pads, and ug service minus 2 oh transformers, 2 cutouts, 2 arresters, and service

ISSUED BY: S. W. Connally, Jr.



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~~Ninth~~^{Tenth} Revised Sheet No. 4.28
Canceling ~~Eighth~~^{Ninth} Revised Sheet No. 4.28

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6.5 OTHER UNDERGROUND DISTRIBUTION FACILITIES

6.5.1 APPLICABILITY. This subpart applies to requests for underground facilities addressing the conversion of existing overhead facilities. In order for the Company to take action pursuant to a request for conversion:

- (1) the conversion area must be at least two contiguous city blocks or 1000 feet in length;
- (2) all electric services to the real property on both sides of the existing overhead primary lines must be part of the conversion; and
- (3) all other existing overhead utility facilities (e.g. telephone, CATV, etc.) must also be converted to underground facilities.

6.5.2 NON-BINDING COST ESTIMATES. An Applicant may obtain a non-binding estimate of the charges the Applicant would be obligated to pay in order for the Company to provide underground distribution facilities. This non-binding estimate will be provided to the Applicant without any charge or fee upon completion of the Application for Underground Cost Estimate set forth in Section VII of this tariff, Standard Contract Forms, at Sheet No. 7.43.

6.5.3 BINDING COST ESTIMATES. An Applicant, upon payment of a non-refundable deposit and completion of the Application for Underground Cost Estimate set forth in Section VII of this tariff, Standard Contract Forms, at Sheet No. 7.43, may obtain an estimate of the charges for underground distribution facilities, which estimate the Company would be bound to honor as provided below. The deposit amount, which approximates the engineering costs for underground facilities associated with preparing the requested estimate, shall be calculated as follows:

<u>Conversion</u>	
Urban Commercial	\$4,6495,227 per overhead primary mile
Urban Residential	\$7,5548,510 per overhead primary mile
Rural Residential	\$6,4396,905 per overhead primary mile
210 Lot Subdivision	\$6,8146,550 per overhead primary mile
176 Lot Subdivision	\$49,46611,452 per overhead primary mile