FILED
May 02, 2023
Data Center
Missouri Public
Service Commission

## Exhibit No. 183

Cost of a mile of HV overhead line
Cost of a mile of HV underground line
Cost of a mile of Primary overhead line
Cost of a mile of Primary underground line
Cost of a mile of Secondary overhead line
Cost of a mile of Secondary overhead line for approximate 270-600
voit service, three phase
Cost of a mile of Secondary underground line for approximate 270-600
cost of a mile of Secondary overhead line for approximate 270-600
cost of a mile of Secondary overhead line for approximate 270-600

360

361

362

363

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370

volt service, single phase Cost of a mile of Secondary underground line for approximate 270-

600 volt service, single phase

Cost of a mile of Secondary overhead line for approximate 110-240 volt service, three phase

Cost of a mile of Secondary underground line for approximate 110-240 volt service, three phase

Cost of a mile of Secondary overhead line for approximate 110-240 volt service, single phase
Cost of a mile of Secondary underground line for approximate 110-

240 volt service, single phase
Cost of adding a customer served overhead at 120/208 volts
Cost of adding a customer served overhead at 120/240 volts
Cost of adding a customer served overhead at 277/480 volts
Cost of adding a customer served overhead at 4KV volts
Cost of adding a customer served overhead at 12KV volts
Cost of adding a customer served overhead at 13KV volts

Customu sumus"

underground

Cost of adding a customer served overhead at 13.8KV volts Cost of adding a customer served overhead at 25KV volts

## Lange, Sarah

From:

Lange, Sarah

Sent:

Monday, April 10, 2023 4:46 PM

To:

Busch, Jim; Luebbert, J.

Subject:

data stuff, added timing requirements

Also, usage data to customes & retained for study

1. Beginning immediately, Ameren Missouri will record transmission assets related to maintenance of voltage support due to the retirement of large synchronous generators to new subaccounts.

- 2. Beginning immediately, Ameren Missouri will create subaccounts within distribution accounts and transmission accounts (plant and reserve) for recording infrastructure related to utility-owned generation.
- 3. In next rate case, Company to provide a study of the level of net metered generation supplied by each class, and to specifically identify the extent to which hourly load data provided for weather normalization, class allocations, etc reflects netting from net metered generation.
- 5. In next rate case or in rate modernization workshop, whichever occurs first:
- (1) Company to provide a study and provide all relied-upon data and analysis estimating costs of customer-specific infrastructure by class and by (1) HV, (2) Primary, (3) "average" LGS customer, (4) "average" SGS customer, (5) "average" residential customer. Residential may be broken down further by customers served at 3 phase, customers using in excess of 30kW in any hour, customers in apartments vs detached, etc.
  - a. In distribution accounts 364-367 in total, and
  - b. In substation accounts in total.
  - Two sets of estimates of each to be developed
    - i. One set of estimates based on historic costs, supported by workpapers,
    - ii. One set of estimates based on current installation costs, informed by ongoing line extension requests or similar data, supported by workpapers.
- (2) Company to provide data concerning the level of rate base and expense associated with radial transmission facilities including substation components, by customer.
- (3) Company to provide a study of the costs associated with service under "Rider RDC, Reserve Distribution Capacity Rider."
- (4) Company to provide a study estimating costs by mile of (1) HV, (2) Primary, (3) relatively high voltage secondary, (4) relatively low voltage secondary separately for overhead and underground,
  - a. In distribution accounts 364-367 in total, and
  - b. In substation accounts in total.
  - c. Two sets of estimates of each to be developed
    - One set of estimates based on historic costs, supported by workpapers,
  - ii. One set of estimates based on current installation costs, informed by ongoing line extension requests or similar data, supported by workpapers.
- d. Miles by voltage and overhead/underground to be provided, with indication of whether or not customer-specific facilities are included.
- (5) Study of information needed to size and design large customer customer and facilities charges at various levels of service, including but not limited to one of the following approaches:
- a. Identification of the type, size, and quantity of assets located at representative customer locations that are Ameren Missouri assets, and Identification of the accounts to which the assets identified are booked. Or
- b. Review of Ameren Missouri records of assets known to be customer specific, such as substations and lines named for those customers for which they serve as customer-specific assets; Identification of the type, size, and quantity of assets; and identification of the accounts to which the assets identified are booked.

## Sarah Lange

Economist, Tariff/Rate Design
Staff of the Missouri Public Service Commission