**PLANT IN SERVICE ACCOUNTS**

350 Land and land rights.

This account shall include the cost of land and land rights used in connection with transmission operations. (See electric plant instruction 7.)

351 Energy Storage Equipment - Transmission

A. This account shall include the cost installed of energy storage equipment used to store energy for load managing purposes. Where energy storage equipment can perform more than one function or purposes, the cost of the equipment shall be allocated among production, transmission, and distribution plant based on the services provided by the asset and the allocation of the asset's cost through rates approved by a relevant regulatory agency. Reallocation of the cost of equipment recorded in this account shall be in accordance with Electric Plant Instruction No. 12, Transfers of Property.

B. Labor costs and power purchased to energize the equipment are includible on the first installation only. The cost of removing, relocating and resetting energy storage equipment shall not be charged to this account but to Account 562.1, Operation of Energy Storage Equipment, and Account, 570.1, Maintenance of Energy Storage Equipment, as appropriate.

C. The records supporting this account shall show, by months, the function(s) each energy storage asset supports or performs.

Items

1. Batteries/Chemical

2. Compressed Air

3. Flywheels

4. Superconducting Magnetic Storage

5. Thermal

352 Structures and improvements.

This account shall include the cost in place of structures and improvements used in connection with transmission operations. (See electric plant instruction 8.)

353 Station equipment.

This account shall include the cost installed of transforming, conversion, and switching equipment used for the purpose of changing the characteristics of electricity in connection with its transmission or for controlling transmission circuits.

Items

1. Bus compartments, concrete, brick, and sectional steel, including items permanently attached thereto.

2. Conduit, including concrete and iron duct runs not a part of a building.

3. Control equipment, including batteries battery charging equipment, transformers, remote relay boards, and connections.

4. Conversion equipment, including transformers, indoor and outdoor, frequency changers, motor generator sets, rectifiers, synchronous converters, motors, cooling equipment, and associated connections.

5. Fences.

6. Fixed and synchronous condensers, including transformers, switching equipment blowers, motors and connections.

7. Foundations and settings, specially constructed for and not expected to outlast the apparatus for which provided.

8. General station equipment, including air compressors, motors, hoists, cranes, test equipment, ventilating equipment, etc.

9. Platforms, railings, steps, gratings, etc. appurtenant to apparatus listed herein.

10. Primary and secondary voltage connections, including bus runs and supports, insulators, potheads, lightning arresters, cable and wire runs from and to outdoor connections or to manholes and the associated regulators, reactors, resistors, surge arresters, and accessory equipment.

11. Switchboards, including meters, relays, control wiring, etc.

12. Switching equipment, indoor and outdoor, including oil circuit breakers and operating mechanisms, truck switches, and disconnect switches.

13. Tools and appliances.

354 Towers and fixtures.

This account shall include the cost installed of towers and appurtenant fixtures used for supporting overhead transmission conductors.

Items

1. Anchors, guys, braces.

2. Brackets.

3. Crossarms, including braces.

4. Excavation, backfill, and disposal of excess excavated material.

5. Foundations.

6. Guards.

7. Insulator pins and suspension bolts.

8. Ladders and steps.

9. Railings, etc.

10. Towers.

355 Poles and fixtures.

This account shall include the cost installed of transmission line poles, wood, steel, concrete, or other material, together with appurtenant fixtures used for supporting overhead transmission conductors.

Items

1. Anchors, head arm and other guys, including guy guards, guy clamps, strain insulators, pole plates, etc.

2. Brackets.

3. Crossarms and braces.

4. Excavation and backfill, including disposal of excess excavated material.

5. Extension arms.

6. Gaining, roofing stenciling, and tagging.

7. Insulator pins and suspension bolts.

8. Paving.

9. Pole steps.

10. Poles, wood, steel, concrete, or other material.

11. Racks complete with insulators.

12. Reinforcing and stubbing.

13. Settings.

14. Shaving and painting.

356 Overhead conductors and devices.

This account shall include the cost installed of overhead conductors and devices used for transmission purposes.

Items

1. Circuit breakers.

2. Conductors, including insulated and bare wires and cables.

3. Ground wires and ground clamps.

4. Insulators, including pin, suspension, and other types.

5. Lightning arresters.

6. Switches.

7. Other line devices.

357 Underground conduit.

This account shall include the cost installed of underground conduit and tunnels used for housing transmission cables or wires. (See electric plant instruction 14.)

Items

1. Conduit, concrete, brick or tile, including iron pipe, fiber pipe, Murray duct, and standpipe on pole or tower.

2. Excavation, including shoring, bracing, bridging, backfill, and disposal of excess excavated material.

3. Foundations and settings specially constructed for and not expected to outlast the apparatus for which provided.

4. Lighting systems.

5. Manholes, concrete or brick, including iron or steel, frames and covers, hatchways, gratings, ladders, cable racks and hangers, etc., permanently attached to manholes.

6. Municipal inspection.

7. Pavement disturbed, including cutting and replacing pavement, pavement base and sidewalks.

8. Permits.

9. Protection of street openings.

10. Removal and relocation of subsurface obstructions.

11. Sewer connections, including drains, traps, tide valves, check valves, etc.

12. Sumps, including pumps.

13. Ventilating equipment.

358 Underground conductors and devices.

This account shall include the cost installed of underground conductors and devices used for transmission purposes.

Items

1. Armored conductors, buried, including insulators, insulating materials, splices, potheads, trenching, etc.

2. Armored conductors, submarine, including insulators, insulating materials, splices in terminal chambers, potheads, etc.

3. Cables in standpipe, including pothead and connection from terminal chamber of manhole to insulators on pole.

4. Circuit breakers.

5. Fireproofing, in connection with any items listed herein.

6. Hollow-core oil-filled cable, including straight or stop joints pressure tanks, auxiliary air tanks, feeding tanks, terminals, potheads and connections, ventilating equipment, etc.

7. Lead and fabric covered conductors, including insulators, compound filled, oil filled, or vacuum splices, potheads, etc.

8. Lightning arresters.

9. Municipal inspection.

10. Permits.

11. Protection of street openings.

12. Racking of cables.

13. Switches.

14. Other line devices.

359 Roads and trails.

This account shall include the cost of roads, trails, and bridges used primarily as transmission facilities.

Items

1. Bridges, including foundation piers, girders, trusses, flooring, etc.

2. Clearing land.

3. Roads, including grading, surfacing, culverts, etc.

4. Structures, constructed and maintained in connection with items included herein.

5. Trails, including grading, surfacing, culverts, etc.

Note:

The cost of temporary roads, bridges, etc., necessary during the period of construction but abandoned or dedicated to public use upon completion of the plant, shall be charged to the accounts appropriate for the construction.

359.1 Asset retirement costs for transmission plant.

This account shall include asset retirement costs on plant included in the transmission plant function.

360 Land and land rights.

This account shall include the cost of land and land rights used in connection with distribution operations. (See electric plant instruction 7.)

Note:

Do not include in this account the cost of permits to erect poles, towers, etc., or to trim trees. (See account 364, Poles, Towers and Fixtures, and account 365, Overhead Conductors and Devices.)

361 Structures and improvements.

This account shall include the cost in place of structures and improvements used in connection with distribution operations. (See electric plant instruction 8.)

362 Station equipment.

This account shall include the cost installed of station equipment, including transformer banks, etc., which are used for the purpose of changing the characteristics of electricity in connection with its distribution.

Items

1. Bus compartments, concrete, brick and sectional steel, including items permanently attached thereto.

2. Conduit, including concrete and iron duct runs not part of building.

3. Control equipment, including batteries, battery charging equipment, transformers, remote relay boards, and connections.

4. Conversion equipment, indoor and outdoor, frequency changers, motor generator sets, rectifiers, synchronous converters, motors, cooling equipment, and associated connections.

5. Fences.

6. Fixed and synchronous condensers, including transformers, switching equipment, blowers, motors, and connections.

7. Foundations and settings, specially constructed for and not expected to outlast the apparatus for which provided.

8. General station equipment, including air compressors, motors, hoists, cranes, test equipment, ventilating equipment, etc.

9. Platforms, railings, steps, gratings, etc., appurtenant to apparatus listed herein.

10. Primary and secondary voltage connections, including bus runs and supports, insulators, potheads, lightning arresters, cable and wire runs from and to outdoor connections or to manholes and the associated regulators, reactors, resistors, surge arresters, and accessory equipment.

11. Switchboards, including meters, relays, control wiring, etc.

12. Switching equipment, indoor and outdoor, including oil circuit breakers and operating mechanisms, truck switches, disconnect switches.

Note:

The cost of rectifiers, series transformers, and other special station equipment devoted exclusively to street lighting service shall not be included in this account, but in account 373, Street Lighting and Signal Systems.

363 Energy Storage Equipment - Distribution

A. This account shall include the cost installed of energy storage equipment used to store energy for load managing purposes. Where energy storage equipment can perform more than one function or purpose, the cost of the equipment shall be allocated among production, transmission, and distribution plant based on the services provided by the asset and the allocation of the asset's cost through rates approved by a relevant regulatory agency. Reallocation of the cost of equipment recorded in this account shall be in accordance with Electric Plant Instruction No. 12, Transfers of Property.

B. Labor costs and power purchased to energize the equipment are includible on the first installation only. The cost of removing, relocating and resetting energy storage equipment shall not be charged to this account but to Account 582.1, Operation of Energy Storage Equipment, and Account, 592.1, Maintenance of Energy Storage Equipment, as appropriate.

C. The records supporting this account shall show, by months, the function(s) each energy storage asset supports or performs.

Items

1. Batteries/Chemical

2. Compressed Air

3. Flywheels

4. Superconducting Magnetic Storage

5. Thermal

364 Poles, towers and fixtures.

This account shall include the cost installed of poles, towers, and appurtenant fixtures used for supporting overhead distribution conductors and service wires.

Items

1. Anchors, head arm, and other guys, including guy guards, guy clamps, strain insulators, pole plates, etc.

2. Brackets.

3. Crossarms and braces.

4. Excavation and backfill, including disposal of excess excavated material.

5. Extension arms.

6. Foundations.

7. Guards.

8. Insulator pins and suspension bolts.

9. Paving.

10. Permits for construction.

11. Pole steps and ladders.

12. Poles, wood, steel, concrete, or other material.

13. Racks complete with insulators.

14. Railings.

15. Reinforcing and stubbing.

16. Settings.

17. Shaving, painting, gaining, roofing, stenciling, and tagging.

18. Towers.

19. Transformer racks and platforms.

365 Overhead conductors and devices.

This account shall include the cost installed of overhead conductors and devices used for distribution purposes.

Items

1. Circuit breakers.

2. Conductors, including insulated and bare wires and cables.

3. Ground wires, clamps, etc.

4. Insulators, including pin, suspension, and other types, and tie wire or clamps.

5. Lightning arresters.

6. Railroad and highway crossing guards.

7. Splices.

8. Switches.

9. Tree trimming, initial cost including the cost of permits therefor.

10. Other line devices.

Note:

The cost of conductors used solely for street lighting or signal systems shall not be included in this account but in account 373, Street Lighting and Signal Systems.

366 Underground conduit.

This account shall include the cost installed of underground conduit and tunnels used for housing distribution cables or wires.

Items

1. Conduit, concrete, brick and tile, including iron pipe, fiber pipe, Murray duct, and standpipe on pole or tower.

2. Excavation, including shoring, bracing, bridging, backfill, and disposal of excess excavated material.

3. Foundations and settings specially constructed for and not expected to outlast the apparatus for which constructed.

4. Lighting systems.

5. Manholes, concrete or brick, including iron or steel frames and covers, hatchways, gratings, ladders, cable racks and hangers, etc., permanently attached to manholes.

6. Municipal inspection.

7. Pavement disturbed, including cutting and replacing pavement, pavement base, and sidewalks.

8. Permits.

9. Protection of street openings.

10. Removal and relocation of subsurface obstructions.

11. Sewer connections, including drains, traps, tide valves, check valves, etc.

12. Sumps, including pumps.

13. Ventilating equipment.

Note:

The cost of underground conduit used solely for street lighting or signal systems shall be included in account 373, Street Lighting and Signal Systems.

367 Underground conductors and devices.

This account shall include the cost installed of underground conductors and devices used for distribution purposes.

Items

1. Armored conductors, buried, including insulators, insulating materials, splices, potheads, trenching, etc.

2. Armored conductors, submarine, including insulators, insulating materials, splices in terminal chamber, potheads, etc.

3. Cables in standpipe, including pothead and connection from terminal chamber or manhole to insulators on pole.

4. Circuit breakers.

5. Fireproofing, in connection with any items listed herein.

6. Hollow-core oil-filled cable, including straight or stop joints, pressure tanks, auxiliary air tanks, feeding tanks, terminals, potheads and connections, etc.

7. Lead and fabric covered conductors, including insulators, compound-filled, oil-filled or vacuum splices, potheads, etc.

8. Lightning arresters.

9. Municipal inspection.

10. Permits.

11. Protection of street openings.

12. Racking of cables.

13. Switches.

14. Other line devices.

Note:

The cost of underground conductors and devices used solely for street lighting or signal systems shall be included in account 373, Street Lighting and Signal Systems.

368 Line transformers.

A. This account shall include the cost installed of overhead and underground distribution line transformers and poletype and underground voltage regulators owned by the utility, for use in transforming electricity to the voltage at which it is to be used by the customer, whether actually in service or held in reserve.

B. When a transformer is permanently retired from service, the original installed cost thereof shall be credited to this account.

C. The records covering line transformers shall be so kept that the utility can furnish the number of transformers of various capacities in service and those in reserve, and the location and the use of each transformer.

Items

1. Installation, labor of (first installation only).

2. Transformer cut-out boxes.

3. Transformer lightning arresters.

4. Transformers, line and network.

5. Capacitors.

6. Network protectors.

Note:

The cost of removing and resetting line transformers shall not be charged to this account but to account 583, Overhead Line Expenses, or account 584, Underground Line Expenses (for Nonmajor utilities, account 561, Line and Station Labor, or account 562, Line and Station Supplies and Expenses), as appropriate. The cost of line transformers used solely for street lighting or signal systems shall be included in account 373, Street Lighting and Signal Systems.

369 Services.

This account shall include the cost installed of overhead and underground conductors leading from a point where wires leave the last pole of the overhead system or the distribution box or manhole, or the top of the pole of the distribution line, to the point of connection with the customer's outlet or wiring. Conduit used for underground service conductors shall be included herein.

Items

1. Brackets.

2. Cables and wires.

3. Conduit.

4. Insulators.

5. Municipal inspection.

6. Overhead to underground, including conduit or standpipe and conductor from last splice on pole to connection with customer's wiring.

7. Pavement disturbed, including cutting and replacing pavement, pavement base, and sidewalks.

8. Permits.

9. Protection of street openings.

10. Service switch.

11. Suspension wire.

370 Meters.

A. This account shall include the cost installed of meters or devices and appurtenances thereto, for use in measuring the electricity delivered to its users, whether actually in service or held in reserve.

B. When a meter is permanently retired from service, the installed cost included herein shall be credited to this account.

C. The records covering meters shall be so kept that the utility can furnish information as to the number of meters of various capacities in service and in reserve as well as the location of each meter owned.

Items

1. Alternating current, watt-hour meters.

2. Current limiting devices.

3. Demand indicators.

4. Demand meters.

5. Direct current watt-hour meters.

6. Graphic demand meters.

7. Installation, labor of (first installation only).

8. Instrument transformers.

9. Maximum demand meters.

10. Meter badges and their attachments.

11. Meter boards and boxes.

12. Meter fittings, connections, and shelves (first set).

13. Meter switches and cut-outs.

14. Prepayment meters.

15. Protective devices.

16. Testing new meters.

Note A:

This account shall not include meters for recording output of a generating station, substation meters, etc. It includes only those meters used to record energy delivered to customers.

Note B:

The cost of removing and resetting meters shall be charged to account 586, Meter Expenses (for Nonmajor utilities, account 556, Meter Expenses).

371 Installations on customers' premises.

This account shall include the cost installed of equipment on the customer's side of a meter when the utility incurs such cost and when the utility retains title to and assumes full responsibility for maintenance and replacement of such property. This account shall not include leased equipment, for which see account 372, Leased Property on Customers' Premises.

Items

1. Cable vaults.

2. Commercial lamp equipment.

3. Foundations and settings specially provided for equipment included herein.

4. Frequency changer sets.

5. Motor generator sets.

6. Motors.

7. Switchboard panels, high or low tension.

8. Wire and cable connections to incoming cables.

Note:

Do not include in this account any costs incurred in connection with merchandising, jobbing, or contract work activities.

372 Leased property on customers' premises.

This account shall include the cost of electric motors, transformers, and other equipment on customers' premises (including municipal corporations), leased or loaned to customers, but not including property held for sale.

Note A:

The cost of setting and connecting such appliances or equipment on the premises of customers and the cost of resetting or removal shall not be charged to this account but to operating expenses, account 587, Customer Installations Expenses (for Nonmajor utilities, account 567, Customer Installations Expenses).

Note B:

Do not include in this account any costs incurred in connection with merchandising, jobbing, or contract work activities.

373 Street lighting and signal systems.

This account shall include the cost installed of equipment used wholly for public street and highway lighting or traffic, fire alarm, police, and other signal systems.

Items

1. Armored conductors, buried or submarine, including insulators, insulating materials, splices, trenching, etc.

2. Automatic control equipment.

3. Conductors, overhead or underground, including lead or fabric covered, parkway cables, etc., including splices, insulators, etc.

4. Lamps, are, incandescent, or other types, including glassware, suspension fixtures, brackets, etc.

5. Municipal inspection.

6. Ornamental lamp posts.

7. Pavement disturbed, including cutting and replacing pavement, pavement base, and sidewalks.

8. Permits.

9. Posts and standards.

10. Protection of street openings.

11. Relays or time clocks.

12. Series contactors.

13. Switches.

14. Transformers, pole or underground.

374 Asset retirement costs for distribution plant.

This account shall include asset retirement costs on plant included in the distribution plant function.

**OPERATIONS AND MAINTENANCE ACCOUNTS**

560 Operation supervision and engineering.

A. For Major utilities, this account shall include the cost of labor and expenses incurred in the general supervision and direction of the operation of the transmission system as a whole. Direct supervision of specific activities, such as station operation, line operation, etc., shall be charged to the appropriate account. (See operating expense instruction 1.)

B. For Nonmajor utilities, this account shall include the cost of supervision and labor in the operation of the transmission system.

Items (Nonmajor Only)

Load Dispatching Labor:

1. Direct switching.

2. Arranging and controlling clearances for construction, maintenance, test and emergency purposes.

3. Controlling system voltages.

4. Obtaining reports on the weather and special events.

5. Preparing operating reports and data for billing and budget purposes.

Station Labor:

6. Supervising station operation.

7. Adjusting station equipment where such adjustment primarily affects performance, such as regulating the flow of cooling water, adjusting current in fields of a machine or changing voltage of regulators changing station transformer taps.

8. Inspecting, testing and calibrating station equipment for the purpose of checking its performance.

9. Keeping station log and records and preparing reports on station operation.

10. Operating switching and other station equipment.

11. Standing watch, guarding and patrolling station and station yard.

12. Sweeping, mopping and tidying station.

13. Care of grounds, including snow removal, cutting grass, etc.

Line Labor:

14. Supervising line operation.

15. Inspecting and testing lightning arresters, circuit breakers, switches and grounds.

16. Load tests of circuits.

17. Routine line patrolling.

18. Routine voltage surveys made to determine the condition of efficiency of transmission system.

19. Transferring loads, switching and reconnecting circuits and equipment for operating purposes. (Switching for construction or maintenance purposes is not includible in this account.)

20. Routine inspection and cleaning of manholes, conduit, network and transformer vaults.

21. Electrolysis surveys.

22. Inspecting and adjusting line testing equipment such as voltmeters, ammeters, wattmeters, etc.

23. Regulation and addition of oil or gas in high voltage cable systems.

Miscellaneous Labor:

24. General records of physical characteristics of lines and stations, such as capacities, etc.

25. Ground resistance records.

26. Janitorial work at transmission office buildings, including care of grounds, snow removal, cutting grass, etc.

27. Joint pole maps and prints.

28. Line load and voltage records.

29. Preparing maps and prints.

30. General clerical and stenographic work.

31. Miscellaneous labor.

561.1 Load Dispatch - Reliability.

This account shall include the cost of labor, materials used and expenses incurred by a regional transmission service provider or other transmission provider to manage the reliability coordination function as specified by the North American Electric Reliability Council (NERC) and individual reliability organizations. These activities shall include performing current and next day reliability analysis. This account shall include the costs incurred to calculate load forecasts, and performing contingency analysis.

561.2 Load Dispatch - Monitor and Operate Transmission System.

This account shall include the costs of labor, materials used and expenses incurred by a regional transmission service provider or other transmission provider to monitor, assess and operate the power system and individual transmission facilities in real-time to maintain safe and reliable operation of the transmission system. This account shall also include the expense incurred to manage transmission facilities to maintain system reliability and to monitor the real-time flows and direct actions according to regional plans and tariffs as necessary.

Items

1. Receive and analyze outage requests

2. Reschedule outage plans

3. Monitor solution quality field data values, providing model updates to NERC and coordinating network model changes across all systems

4. Conduct operating training related to NERC certification

5. Monitor generation resources and communicate expected dispatch actions

6. Ensure ancillary service requirements are met

7. Directing switching

8. Controlling system voltages

9. Obtaining reports on the weather and special events

10. Preparing operating reports and data for billing and budget purposes

561.3 Load Dispatch - Transmission Service and Scheduling.

This account shall include the costs of labor, materials used and expenses incurred by a regional transmission service provider or other transmission provider to process hourly, daily, weekly and monthly transmission service requests using an automated system such as an Open Access Same-Time Information System (OASIS). It shall also include the expenses incurred to operate the automated transmission service request system and to monitor the status of all scheduled energy transactions.

561.4 Scheduling, System Control and Dispatching Services.

This account shall include the costs billed to the transmission owner, load serving entity or generator for scheduling, system control and dispatching service. Include in this account service billings for system control to maintain the reliability of the transmission area in accordance with reliability standards, maintaining defined voltage profiles, and monitoring operations of the transmission facilities.

561.5 Reliability, Planning and Standards Development.

This account shall include the cost of labor, materials used and expenses incurred for the system planning of the interconnected bulk electric transmission systems within a planning authority area.

Items

1. Developing and maintaining transmission system models to evaluate transmission system performance.

2. Maintaining and applying methodologies and tools for the analysis and simulation of the transmission systems for the assessment and development of transmission expansion plans.

3. Assessing, developing and documenting transmission expansion plans.

4. Maintaining transmission system models (steady-state, dynamics, and short circuit).

5. Collecting transmission information and transmission facility characteristics and ratings.

6. Notifying participants of any planned transmission changes that may impact their facilities.

7. Developing and reporting on transmission expansion plans for assessment and compliance with reliability standards.

8. Developing reliability standards for the planning and operation of the interconnected bulk electric transmission systems that serve the United States, Canada, and Mexico.

9. Developing criteria and certification procedures for reliability authorities, transmission operators and others.

10. Outside services employed.

Note:

The cost of supervision, customer records and collection expenses, administrative and general salaries, office supplies and expenses, property insurance, injuries and damages, employee pension and benefits, regulatory commission expenses, general advertising, and rents shall be charged to the customer accounts, service, and administrative and general expense accounts contained in the Uniform System of Accounts.

561.6 Transmission Service Studies.

This account shall include the cost of labor, materials used and expenses incurred to conduct transmission services studies for proposed interconnections with the transmission system. Detailed records shall be maintained for each study undertaken and all reimbursements received for conducting such a study.

561.7 Generation Interconnection Studies.

This account shall include the cost of labor, materials used and expenses incurred to conduct generation interconnection studies for proposed interconnections with the transmission system. Detailed records shall be maintained for each study undertaken and all reimbursements received for conducting such a study.

561.8 Reliability Planning and Standards Development Services

This account shall include the costs billed to the transmission owner, load serving entity, or generator for system planning of the interconnected bulk electric transmission system. Include also the costs billed by the regional transmission service provider for system reliability and resource planning to develop long-term strategies to meet customer demand and energy requirements. This account shall also include fees and expenses for outside services incurred by the regional transmission service provider and billed to the load serving entity, transmission owner or generator.

562 Station expenses (Major only).

This account shall include the cost of labor, materials used and expenses incurred in operating transmission substations and switching stations. If transmission station equipment is located in or adjacent to a generating station the expenses applicable to transmission station operations shall nevertheless be charged to this account.

Items

Labor:

1. Supervising station operation.

2. Adjusting station equipment where such adjustment primarily affects performance, such as regulating the flow of cooling water, adjusting current in fields of a machine or changing voltage of regulators, changing station transformer taps.

3. Inspecting, testing and calibrating station equipment for the purpose of checking its performance.

4. Keeping station log and records and preparing reports on station operation.

5. Operating switching and other station equipment.

6. Standing watch, guarding, and patrolling station and station yard.

7. Sweeping, mopping, and tidying station.

8. Care of grounds, including snow removal, cutting grass, etc.

Materials and Expenses:

9. Building service expenses.

10. Operating supplies, such as lubricants, commutator brushes, water, and rubber goods.

11. Station meter and instrument supplies, such as ink and charts.

12. Station record and report forms.

13. Tool expense.

14. Transportation expenses.

15. Meals, traveling, and incidental expenses.

562.1 Operation of Energy Storage Equipment

This account shall include the cost of labor, materials used and expenses incurred in the operation of energy storage equipment includible in Account 351, Energy Storage Equipment - Transmission, which are not specifically provided for or are readily assignable to other transmission operation expense accounts.

563 Overhead line expenses (Major only).

564 Underground line expenses (Major only).

A. These accounts shall include the cost of labor, materials used and expenses incurred in the operation of transmission lines.

B. If the expenses are not substantial for both overhead and underground lines, these accounts may be combined.

Items

Labor:

1. Supervising line operation.

2. Inspecting and testing lightning arresters, circuit breakers, switches, and grounds

3. Load tests of circuits.

4. Routine line patrolling.

5. Routine voltage surveys made to determine the condition or efficiency of transmission system.

6. Transferring loads, switching and reconnecting circuits and equipment for operating purposes. (Switching for construction or maintenance purposes is not includible in this account.)

7. Routine inspection and cleaning of manholes, conduit, network and transformer vaults.

8. Electrolysis surveys.

9. Inspecting and adjusting line-testing equipment, such as voltmeters, ammeters, wattmeters, etc.

10. Regulation and addition of oil or gas in high-voltage cable systems.

Materials and Expenses:

11. Transportation expenses.

12. Meals, traveling and incidental expenses.

13. Tool expenses.

14. Operating supplies, such as instrument charts, rubber goods, etc.

565 Transmission of electricity by others (Major only).

This account shall include amounts payable to others for the transmission of the utility's electricity over transmission facilities owned by others.

566 Miscellaneous transmission expenses (Major only).

This account shall include the cost of labor, materials used and expenses incurred in transmission map and record work, transmission office expenses, and other transmission expenses not provided for elsewhere.

Items

Labor:

1. General records of physical characteristics of lines and stations, such as capacities, etc.

2. Ground resistance records.

3. Janitor work at transmission office buildings, including care of grounds, snow removal, cutting grass, etc.

4. Joint pole maps and records.

5. Line load and voltage records.

6. Preparing maps and prints.

7. General clerical and stenographic work.

8. Miscellaneous labor.

Materials and Expenses:

9. Communication service.

10. Building service supplies.

11. Map and record supplies.

12. Transmission office supplies and expenses, printing and stationery.

13. First-aid supplies.

14. Research, development, and demonstration expenses.

567 Rents.

This account shall include rents of property of others used, occupied, or operated in connection with the transmission system, including payments to the United States and others for use of public or private lands and reservations for transmission line rights of way. (See operating expense instruction 3.)

567.1 Operation supplies and expenses (Nonmajor only).

This account shall include the cost of materials used and expenses incurred in the operation of the transmission system.

Items

1. Building service expenses.

2. Operating supplies, such as lubricants, commutator brushes, water, and rubber goods.

3. Station meter and instrument supplies, such as ink and charts.

4. Station record and report forms.

5. Communication service.

6. First-aid supplies.

7. Tool expense.

8. Transportation expenses.

9. Meals, traveling, and incidental expenses.

568 Maintenance supervision and engineering (Major only).

This account shall include the cost of labor and expenses incurred in the general supervision and direction of maintenance of the transmission system. Direct field supervision of specific jobs shall be charged to the appropriate maintenance account. (See operating expense instruction 1.)

569 Maintenance of structures (Major only).

This account shall include the cost of labor, materials used and expenses incurred in the maintenance of structures, the book cost of which is includible in account 352, Structures and Improvements. (See operating expense instruction 2.)

569.1 Maintenance of Computer Hardware.

This account shall include the cost of labor, materials used and expenses incurred in the maintenance of computer hardware serving the transmission function.

569.2 Maintenance of Computer Software.

This account shall include the cost of labor, materials used and expenses incurred for annual computer software license renewals, annual software update services and the cost of ongoing support for software products serving the transmission function.

Items

1. Telephone support

2. Onsite support

3. Software updates and minor revisions

569.3 Maintenance of Communication Equipment.

This account shall include the cost of labor, materials used and expenses incurred in the maintenance of communication equipment serving the transmission function.

569.4 Maintenance of Miscellaneous Regional Transmission Plant.

This account shall include the cost of labor, materials used and expenses incurred in the maintenance of miscellaneous regional transmission plant serving the transmission function.

570 Maintenance of station equipment (Major only).

This account shall include the cost of labor, materials used and expenses incurred in maintenance of station equipment the book cost of which is includible in account 353, Station Equipment. (See operating expense instruction 2.)

570.1 Maintenance of Energy Storage Equipment

This account shall include the cost of labor, materials used and expenses incurred in the maintenance of energy storage equipment includible in Account 351, Energy Storage Equipment - Transmission, which are not specifically provided for or are readily assignable to other transmission maintenance expense accounts.

571 Maintenance of overhead lines (Major only).

This account shall include the cost of labor, materials used and expenses incurred in maintenance of transmission plant, the book cost of which is includible in accounts 354, Towers and Fixtures, 355, Poles and Fixtures, 356, Overhead Conductors and Devices, 359, Roads and Trails. (See operating expense instruction 2.)

Items

1. Work of the following character on poles, towers and fixtures:

a. Installing or removing additional clamps or strain insulators on guys in place.

b. Moving line or guy pole in relocation of the same pole or section of line.

c. Painting poles, towers, crossarms or pole extensions.

d. Readjusting and changing position of guys or braces.

e. Realigning and straightening poles, cross arms braces, and other pole fixtures.

f. Reconditioning reclaimed pole fixtures.

g. Relocating crossarms, racks, brackets, and other fixtures on poles.

h. Repairing or realigning pins, racks, or brackets.

i. Repairing pole supported platform.

j. Repairs by others to jointly owned poles.

k. Shaving, cutting rot, or treating poles or crossarms in use or salvaged for reuse.

l. Stubbing poles already in service.

m. Supporting fixtures and conductors and transferring them to new pole during poles replacements.

n. Maintenance of pole signs, stencils, tags, etc.

2. Work of the following character on overhead conductors and devices:

a. Overhauling and repairing line cutouts, line switches, line breakers, etc.

b. Cleaning insulators and bushings.

c. Refusing cutouts.

d. Repairing line oil circuit breakers and associated relays and control wiring.

e. Repairing grounds.

f. Resagging, retying, or rearranging position or spacing of conductors.

g. Standing by phones, going to calls, cutting faulty lines clear, or similar activities at times of emergencies.

h. Sampling, testing, changing, purifying, and replenishing insulating oil.

i. Repairing line testing equipment.

j. Transferring loads, switching and reconnecting circuits and equipment for maintenance purposes.

k. Trimming trees and clearing brush.

l. Chemical treatment of right of way areas when occurring subsequent to construction of line.

3. Work of the following character on roads and trails:

a. Repairing roadway, bridges, etc.

b. Trimming trees and brush to maintain previous roadway clearance.

c. Snow removal from roads and trails.

d. Maintenance work on publicly owned roads and trails when done by utility at its expense.

572 Maintenance of underground lines (Major only).

This account shall include the cost of labor, materials used and expenses incurred in maintenance of transmission plant, the book cost of which is includible in accounts 357, Underground Conduit, and 358, Underground Conductors and Devices. (See operating expense instruction 2.)

Items

1. Work of the following character on underground conduit:

a. Cleaning ducts, manholes, and sewer connections.

b. Minor alterations of handholes, manholes, or vaults.

c. Refastening, repairing, or moving racks, ladders, or hangers in manholes, or vaults.

d. Plugging and shelving or replugging ducts.

e. Repairs to sewers and drains, walls and floors, rings and covers.

2. Work of the following character on underground conductors and devices:

a. Repairing oil circuit breakers, switches, cutouts, and control wiring.

b. Repairing grounds.

c. Retraining and reconnecting cables in manhole, including transfer of cables from one duct to another.

d. Repairing conductors and splices.

e. Repairing or moving junction boxes and potheads.

f. Refireproofing of cables and repairing supports.

g. Repairing electrolysis preventive devices for cables.

h. Repairing cable bonding systems.

i. Sampling, testing, changing, purifying and replenishing insulating oil.

j. Transferring loads, switching and reconnecting circuits and equipment for maintenance purposes.

k. Repairing line testing equipment.

l. Repairs to oil or gas equipment in highvoltage cable system and replacement of oil or gas.

573 Maintenance of miscellaneous transmission plant (Major only).

This account shall include the cost of labor, materials used and expenses incurred in maintenance of owned or leased plant which is assignable to transmission operations and is not provided for elsewhere. (See operating expense instruction 2.)

574 Maintenance of transmission plant (Nonmajor only).

This account shall include the cost of labor, materials used and expenses incurred in the maintenance of transmission plant the book cost of which is includible in plant accounts 351 to 359 inclusive. (See operating expense instruction 2.)

Items

1. Work of the following character on poles, towers and fixtures:

a. Installing or removing additional clamps or strain insulators on guys in place.

b. Moving line or guy pole in relocation of the same pole or section of line.

c. Painting poles, towers, crossarms or pole extensions.

d. Readjusting and changing position of guys or braces.

e. Realigning and straightening poles, crossarms, braces and other pole fixtures.

f. Reconditioning reclaimed pole fixtures.

g. Relocating crossarms, racks, brackets, and other fixtures on poles.

h. Repairing or realigning pins, racks, or brackets.

i. Repairing pole supported platform.

j. Repairs by others to jointly owned poles.

k. Shaving, cutting rot, or treating poles or crossarms in use or salvaged for reuse.

l. Stubbing poles already in service.

m. Supporting fixtures and conductors and transferring them to new pole during pole replacement.

n. Maintenance of pole signs, stencils, tags, etc.

2. Work of the following character on overhead conductors and devices:

a. Overhauling and repairing line cutouts, line switches, line breakers, etc.

b. Cleaning insulators and bushings.

c. Refusing cutouts.

d. Repairing line oil circuit breakers and associated relays and control wiring.

e. Repairing grounds.

f. Resagging, retying, or rearranging position or spacing of conductors.

g. Standing by phones, going to calls, cutting faulty lines clear, or similar activities at times of emergencies.

h. Sampling, testing, changing, purifying, and replenishing insulating oil.

i. Repairing line testing equipment.

j. Transferring loads, switching and reconnecting circuits and equipment for maintenance purposes.

k. Trimming trees and clearing brush.

l. Chemical treatment of right of way areas when occurring subsequent to construction of line.

3. Work of the following character on roads and trails:

a. Repairing roadway, bridges, etc.

b. Trimming trees and brush to maintain previous roadway clearance.

c. Snow removal from roads and trails.

d. Maintenance work on publicly owned roads and trails when done by utility at its expense.

4. Work of the following character on underground conduit:

a. Cleaning ducts, manholes, and sewer connections.

b. Minor alterations of handholes, manholes, or vaults.

c. Refasting, repairing, or moving racks, ladders, or hangers in manholes, or vaults.

d. Plugging and shelving or replugging ducts.

e. Repairs to sewers and drains, walls and floors, rings and covers.

5. Work of the following character on underground conductors and devices:

a. Repairing oil circuit breakers, switches, cutouts, and control wiring.

b. Repairing grounds.

c. Retraining and reconnecting cables in manhole, including transfer of cables from one duct to another.

d. Repairing conductors and splices.

e. Repairing or moving junction boxes and potheads.

f. Refireproofing of cables and repairing supports.

g. Repairing electrolysis preventive devices for cables.

h. Repairing cable bonding systems.

i. Sampling, testing, changing, purifying and replenishing insulating oil.

j. Transferring loads, switching and reconnecting circuits and equipment for maintenance purposes.

k. Repairing line testing equipment.

l. Repairs to oil or gas equipment in high voltage cable system and replacement of oil or gas.

575.1 Operation Supervision.

This account shall include the cost of labor and expenses incurred in the general supervision and direction of the regional energy markets.

575.2 Day-Ahead and Real-Time Market Administration.

This account shall include the cost of labor, materials used and expenses incurred to facilitate the Day-Ahead and Real-Time markets. This account shall also include the costs incurred to manage the real-time deployment of resources to meet generation needs and to provide capacity adequacy verification. Include in this account the costs incurred to maintain related sections of the tariff, market rules, operating procedures, and standards and coordinating with neighboring areas.

Items

1. Consultant fees and expenses

2. System record and report forms

3. Meals, traveling and incidental expenses

Note:

The cost of supervision, customer records and collection expenses, administrative and general salaries, office supplies and expenses, property insurance, injuries and damages, employee pension and benefits, regulatory commission expenses, general advertising, and rents shall be charged to the customer accounts, service, and administrative and general expense accounts contained in the Uniform System of Accounts.

575.3 Transmission Rights Market Administration.

This account shall include the cost of labor, materials used and expenses incurred to manage the allocation and auction of transmission rights.

575.4 Capacity Market Administration.

This account shall include the cost of labor, materials used and expenses incurred to manage the allocation of capacity rights.

575.5 Ancillary Services Market Administration.

This account shall include the cost of labor, materials used and expenses incurred to manage all other ancillary services market functions.

575.6 Market Monitoring and Compliance.

This account shall include the cost of labor, materials used and expenses incurred to review market data and operational decisions for compliance with market rules. It shall also include the costs incurred to interface with external market monitors.

575.7 Market Administration, Monitoring and Compliance Services.

This account shall include the costs billed to the transmission owner, load serving entity or generator for market administration, monitoring and compliance services.

575.8 Rents.

This account shall include all rents of property of others used, occupied, or operated in connection with market administration and monitoring. (See operating expense instruction 3.)

576.1 Maintenance of Structures and Improvements.

This account shall include the cost of labor, materials used and expenses incurred in the maintenance of structures used in market administration and monitoring. (See operating expense instruction 2.)

576.2 Maintenance of Computer Hardware.

The account shall include the cost of labor, materials used and expenses incurred in the maintenance of computer hardware used in market administration and monitoring.

576.3 Maintenance of Computer Software.

This account shall include the cost of labor, materials used and expenses incurred for annual computer software license renewals, annual software update services and the cost of ongoing support for software products used in market administration and monitoring.

Items

1. Telephone support

2. Onsite support

3. Software updates and minor revisions

576.4 Maintenance of Communication Equipment.

This account shall include the cost of labor, materials used and expenses incurred in the maintenance of communication equipment used in market administration and monitoring.

576.5 Maintenance of Miscellaneous Market Operation Plant.

This account shall include the cost of labor, materials used and expenses incurred in the maintenance of miscellaneous market operation plant used in market administration and monitoring.

580 Operation supervision and engineering.

This account shall include the cost of labor and expenses incurred in the general supervision and direction of the operation of the distribution system. Direct supervision of specific activities, such as station operation, line operation, meter department operation, etc., shall be charged to the appropriate account. (For Major utilities, see operating expense instruction 1.)

581 Load dispatching (Major only).

This account (the keeping of which is optional with the utility) shall include the cost of labor, materials used and expenses incurred in load dispatching operations pertaining to the distribution of electricity.

Items

Labor:

1. Directing switching.

2. Arranging and controlling clearances for construction, maintenance, test and emergency purposes.

3. Controlling system voltages.

4. Preparing operating reports.

5. Obtaining reports on the weather and special events.

Expenses:

6. Communication service provided for system control purposes.

7. System record and report forms.

8. Meals, traveling and incidental expenses.

581.1 Line and station supplies and expenses (Nonmajor only).

582 Station expenses (Major only).

583 Overhead line expenses (Major only).

584 Underground line expenses (Major only).

Accounts 581.1 through 584 shall include, respectively, the cost of labor, materials used and expenses incurred in the operation of overhead and underground distribution lines and stations.

Items

Line Labor:

1. Supervising line operation.

2. Changing line transformer taps.

3. Inspecting and testing lightning arresters, line circuit breakers, switches and grounds.

4. Inspecting and testing line transformers for the purpose of determining load, temperature or operating performance.

5. Patrolling lines.

6. Load tests and voltages surveys of feeders, circuits and line transformers.

7. Removing line transformers and voltage regulators with or without replacements.

8. Installing line transformers or voltage regulators with or without change in capacity provided that the first installation of these items is included in account 368, Line transformers.

9. Voltage surveys, either routine or upon request of customers, including voltage tests at customers' main switch.

10. Transferring loads, switching and reconnecting circuits and equipment for operation purposes.

11. Electrolysis surveys.

12. Inspecting and adjusting line testing equipment.

Line Supplies and Expenses:

13. Tool expenses.

14. Transportation expenses.

15. Meals, traveling and incidental expense.

16. Operating supplies, such as instrument charts, rubber goods, etc.

Station Labor:

1. Supervising station operation.

2. Adjusting station equipment where such adjustment primarily affects performance, such as regulating the flow of cooling water, adjusting current in fields of a machine, changing voltage of regulators or changing station transformer taps.

3. Keeping station log and records and preparing reports on station operation.

4. Inspecting, testing and calibrating station equipment for the purpose of checking its performance.

5. Operating switching and other station equipment.

6. Standing watch, guarding and patrolling station and station yard.

7. Sweeping, mopping and tidying station.

8. Care of grounds, including snow removal, cutting grass, etc.

Station Supplies and Expenses:

9. Building service expenses.

10. Operating supplies, such as lubricants, commutator brushes, water and rubber goods.

11. Station meter and instrument supplies, such as ink and charts.

12. Station record and report forms.

13. Tool expenses.

14. Transportation expenses.

15. Meals, traveling and incidental expenses.

Note (Major only):

If the utility owns storage battery equipment used for supplying electricity to customers in periods of emergency, the cost of operating labor and of supplies, such as acid, gloves, hydrometers, thermometers, soda, automatic cell fillers, acid proof shoes, etc., shall be included in this account. If significant in amount, a separate subdivision shall be maintained for such expenses.

584.1 Operation of Energy Storage Equipment

This account shall include the cost of labor, materials used and expenses incurred in the operation of energy storage equipment includible in Account 363, Energy Storage Equipment - Distribution, which are not specifically provided for or are readily assignable to other distribution operation expense accounts.

585 Street lighting and signal system expenses.

A. For Nonmajor utilities, this account shall include the cost of labor, materials used and expenses incurred in the operation of street lighting and signal system plant.

B. For Major utilities, this account shall include the cost of labor, materials used and expenses incurred in: (a) The operation of street lighting and signal system plant which is owned or leased by the utility; and (b) the operation and maintenance of such plant owned by customers where such work is done regularly as a part of the street lighting and signal system service.

Items

Labor:

1. Supervising street lighting and signal systems operation.

2. Replacing lamps and incidental cleaning of glassware and fixtures in connection therewith.

3. Routine patrolling for lamp outages, extraneous nuisances or encroachments, etc.

4. Testing lines and equipment including voltage and current measurement.

5. Winding and inspection of time switch and other controls.

Materials and Expenses:

6. Street lamp renewals.

7. Transportation and tool expense.

8. Meals, traveling, and incidental expenses.

586 Meter expenses.

This account shall include the cost of labor, materials used and expenses incurred in the operation of customer meters and associated equipment.

Items

Labor:

1. Supervising meter operation.

2. Clerical work on meter history and associated equipment record cards, test cards, and reports.

3. Disconnecting and reconnecting, removing and reinstalling, sealing and unsealing meters and other metering equipment in connection with initiating or terminating services including the cost of obtaining meter readings, if incidental to such operation.

4. Consolidating meter installations due to elimination of separate meters for different rates of service.

5. Changing or relocating meters, instrument transformers, time switches, and other metering equipment.

6. Resetting time controls, checking operation of demand meters and other metering equipment, when done as an independent operation.

7. Inspecting and adjusting meter testing equipment.

8. Inspecting and testing meters, instrument transformers, time switches, and other metering equipment on premises or in shops excluding inspecting and testing incidental to maintenance

Materials and Expenses:

9. Meter seals and miscellaneous meter supplies.

10. Transportation expenses.

11. Meals, traveling, and incidental expenses.

12. Tool expenses.

Note:

The cost of the first setting and testing of a meter is chargeable to utility plant account 370, Meters.

587 Customer installations expenses.

This account shall include the cost of labor, materials used and expenses incurred in work on customer installations in inspecting premises and in rendering services to customers of the nature of those indicated by the list of items hereunder.

Items

Labor:

1. Supervising customer installations work.

2. Inspecting premises, including check of wiring for code compliance.

3. Investigating, locating, and clearing grounds on customers' wiring.

4. Investigating service complaints, including load tests of motors and lighting and power circuits on customers' premises; field investigations of complaints on bills or of voltage.

5. Installing, removing, renewing, and changing lamps and fuses.

6. Radio, television and similar interference work including erection of new aerials on customers' premises and patrolling of lines, testing of lightning arresters, inspection of pole hardware, etc., and examination on or off premises of customers' appliances, wiring, or equipment to locate cause of interference.

7. Installing, connecting, reinstalling, or removing leased property on customers' premises.

8. Testing, adjusting, and repairing customers' fixtures and appliances in shop or on premises.

9. Cost of changing customers' equipment due to changes in service characteristics.

10. Investigation of current diversion including setting and removal of check meters and securing special readings thereon; special calls by employees in connection with discovery and settlement of current diversion; changes in customer wiring and any other labor cost identifiable as caused by current diversion.

Materials and Expenses:

11. Lamp and fuse renewals.

12. Materials used in servicing customers' fixtures, appliances and equipment.

13. Power, light, heat, telephone, and other expenses of appliance repair department.

14. Tool expense.

15. Transportation expense, including pickup and delivery charges.

16. Meals, traveling and incidental expenses.

17. Rewards paid for discovery of current diversion.

Note A:

Amounts billed customers for any work, the cost of which is charged to this account, shall be credited to this account. Any excess over costs resulting therefrom shall be transferred to account 451, Miscellaneous Service Revenues.

Note B:

Do not include in this account expenses incurred in connection with merchandising, jobbing and contract work.

588 Miscellaneous distribution expenses.

This account shall include the cost of labor, materials used and expenses incurred in distribution system operation not provided for elsewhere.

Items

Labor:

1. General records of physical characteristics of lines and substations, such as capacities, etc.

2. Ground resistance records.

3. Joint pole maps and records.

4. Distribution system voltage and load records.

5. Preparing maps and prints.

6. Service interruption and trouble records.

7. General clerical and stenographic work except that chargeable to account 586, Meter expenses.

Expenses:

8. Operating records covering poles, transformers, manholes, cables, and other distribution facilities. Exclude meter records chargeable to account 586. Meter Expenses and station records chargeable to account 582, Station Expenses (For Nonmajor utilities, account 581.1, Line and Station Expenses), and stores records (For Nonmajor utilities, station records) chargeable to account 163, Stores Expense Undistributed (For Nonmajor utilities, account 581.1, Line and Station Expenses).

9. Janitor work at distribution office buildings including snow removal, cutting grass, etc.

Materials and Expenses:

10. Communication service.

11. Building service expenses.

12. Miscellaneous office supplies and expenses, printing, and stationery, maps and records and first-aid supplies.

13. Research, development, and demonstration expenses (Major only).

589 Rents.

This account shall include rents of property of others used, occupied, or operated in connection with the distribution system, including payments to the United States and others for the use and occupancy of public lands and reservations for distribution line rights of way. (See operating expense instruction 3.)

590 Maintenance supervision and engineering (Major only).

This account shall include the cost of labor and expenses incurred in the general supervision and direction of maintenance of the distribution system. Direct field supervision of specific jobs shall be charged to the appropriate maintenance account. (See operating expense instruction 1.)

591 Maintenance of structures (Major only).

This account shall include the cost of labor, materials used and expenses incurred in maintenance of structures, the book cost of which is includible in account 361, Structures and Improvements. (See operating expense instruction 2.)

592 Maintenance of station equipment (Major only).

This account shall include the cost of labor, materials used and expenses incurred in maintenance of plant, the book cost of which is includible in account 362, Station Equipment, and account 363, Storage Battery Equipment. (See operating expense instruction 2.)

592.1 Maintenance of Structures and Equipment (Nonmajor Only)

This account shall include the cost of labor, materials used and expenses incurred in maintenance of structures, the book cost of which is includible in account 361, Structures and Improvements, and account 362, Station Equipment. (See operating expense instruction 2.)

593 Maintenance of overhead lines (Major only).

This account shall include the cost of labor, materials used and expenses incurred in the maintenance of overhead distribution line facilities, the book cost of which is includible in account 364, Poles, Towers and Fixtures, account 365, Overhead Conductors and Devices, and account 369, Services. (See operating expense instruction 2.)

Items

1. Work of the following character on poles, towers, and fixtures:

a. Installing additional clamps or removing clamps or strain insulators on guys in place.

b. Moving line or guy pole in relocation of pole or section of line.

c. Painting poles, towers, crossarms, or pole extensions.

d. Readjusting and changing position of guys or braces.

e. Realigning and straightening poles, crossarms, braces, pins, racks, brackets, and other pole fixtures.

f. Reconditioning reclaimed pole fixtures.

g. Relocating crossarms, racks, brackets, and other fixtures on poles.

h. Repairing pole supported platform.

i. Repairs by others to jointly owned poles.

j. Shaving, cutting rot, or treating poles or crossarms in use or salvaged for reuse.

k. Stubbing poles already in service.

l. Supporting conductors, transformers, and other fixtures and transferring them to new poles during pole replacements.

m. Maintaining pole signs, stencils, tags, etc.

2. Work of the following character on overhead conductors and devices:

a. Overhauling and repairing line cutouts, line switches, line breakers, and capacitor installations.

b. Cleaning insulators and bushings.

c. Refusing line cutouts.

d. Repairing line oil circuit breakers and associated relays and control wiring.

e. Repairing grounds.

f. Resagging, retying, or rearranging position or spacing of conductors.

g. Standing by phones, going to calls, cutting faulty lines clear, or similar activities at times of emergency.

h. Sampling, testing, changing, purifying, and replenishing insulating oil.

i. Transferring loads, switching, and reconnecting circuits and equipment for maintenance purposes.

j. Repairing line testing equipment.

k. Trimming trees and clearing brush.

l. Chemical treatment of right of way area when occurring subsequent to construction of line.

3. Work of the following character on overhead services:

a. Moving position of service either on pole or on customers' premises.

b. Pulling slack in service wire.

c. Retying service wire.

d. Refastening or tightening service bracket.

594 Maintenance of underground lines (Major only).

This account shall include the cost of labor, materials used and expenses incurred in the maintenance of underground distribution line facilities, the book cost of which is includible in account 366, Underground Conduit, account 367, Underground Conductors and Devices, and account 369, Services. (See operating expense instruction 2.)

Items

1. Work of the following character on underground conduit:

a. Cleaning ducts, manholes, and sewer connections.

b. Moving or changing position of conduit or pipe.

c. Minor alterations of handholes, manholes, or vaults.

d. Refastening, repairing, or moving racks, ladders, or hangers in manholes or vaults.

e. Plugging and shelving ducts.

f. Repairs to sewers, drains, walls, and floors, rings and covers.

2. Work of the following character on underground conductors and devices:

a. Repairing circuit breakers, switches, cutouts, network protectors, and associated relays and control wiring.

b. Repairing grounds.

c. Retraining and reconnecting cables in manholes including transfer of cables from one duct to another.

d. Repairing conductors and splices.

e. Repairing or moving junction boxes and potheads.

f. Refireproofing cables and repairing supports.

g. Repairing electrolysis preventive devices for cables.

h. Repairing cable bonding systems.

i. Sampling, testing, changing, purifying and replenishing insulating oil.

j. Transferring loads, switching and reconnecting circuits and equipment for maintenance purposes.

k. Repairing line testing equipment.

l. Repairing oil or gas equipment in high voltage cable systems and replacement of oil or gas.

3. Work of the following character on underground services:

a. Cleaning ducts.

b. Repairing any underground service plant.

594.1 Maintenance of lines (Nonmajor only).

This account shall include the cost of labor, materials used and expenses incurred in the maintenance of distribution line facilities, the book cost of which is includible in account 364, Poles, Towers and Fixtures, account 365, Overhead Conductors and Devices, account 366, Underground Conduit, account 367, Underground Conductors and Devices, and account 369, Services. (See operating expense instruction 2.)

Items

1. Work of the following character on poles, towers, and fixtures:

a. Installing additional clamps or removing clamps or strain insulators on guys in place.

b. Moving line or guy pole in relocation of pole or section of line.

c. Painting poles, towers, crossarms, or pole extensions.

d. Readjusting and changing position of guys or braces.

e. Realigning and straightening poles, crossarms, braces, pins, racks, brackets, and other pole fixtures.

f. Reconditioning reclaimed pole fixtures.

g. Relocating crossarms, racks, brackets, and other fixtures on pole.

h. Repairing pole supported platform.

i. Repairs by others to jointly owned poles.

j. Shaving, cutting rot, or treating poles or crossarms in use or salvage for reuse.

k. Stubbing poles already in service.

l. Supporting conductors, transformers, and other fixtures and transferring them to new poles during pole replacement.

m. Maintaining pole signs, stencils, tags, etc.

2. Work of the following character on overhead conductors and devices:

a. Overhauling and repairing line cutouts, line switches, line breakers, and capacitor installations.

b. Cleaning insulators and bushings.

c. Refusing line cutouts.

d. Repairing line oil circuit breakers and associated relays and control wiring.

e. Repairing grounds.

f. Resagging, retying, or rearranging position or spacing of conductors.

g. Standing by phones, going to calls, cutting faulting lines clear, or similar activities at times of emergencies.

h. Sampling, testing, changing, purifying, and replenishing insulating oil.

i. Transferring loads, switching, and reconnecting circuits and equipment for maintenance purposes.

j. Repairing line testing equipment.

k. Trimming trees and clearing brush.

l. Chemical treatment of right of way area when occurring subsequent to construction of line.

3. Work of the following character on underground conduit:

a. Cleaning ducts, manholes, and sewer connections.

b. Moving or changing position of conduit or pipe.

c. Minor alterations of handholes, manholes, or vaults.

d. Refastening, repairing or moving racks, ladders, or hangers in manholes or vaults.

e. Plugging and shelving ducts.

f. Repairs to sewers, drains, walls and floors, rings and covers.

4. Work of the following character on underground conductors and devices:

a. Repairing circuit breakers, switches, cutouts, network protectors, and associated relays and control wiring.

b. Repairing grounds.

c. Retraining and reconnecting cables in manhole including transfer of cables from one duct to another.

d. Repairing conductors and splices.

e. Repairing or moving junction boxes and potheads.

f. Refireproofing cables and repairing supports.

g. Repairing electrolysis preventive devices for cables.

h. Repairing cable bonding systems.

i. Sampling, testing, changing, purifying and replenishing insulating oil.

j. Transferring loads, switching and reconnecting circuits and equipment for maintenance purposes.

k. Repairing line testing equipment.

l. Repairing oil or gas equipment in high voltage cable system and replacement of oil or gas.

5. Work of the following character on services:

a. Moving position of service either on pole or on customers' premises.

b. Pulling slack in service wire.

c. Retying service wire.

d. Refastening or tightening service bracket.

e. Cleaning ducts.

**595 Maintenance of line transformers.**

This account shall include the cost of labor, materials used and expenses incurred in maintenance of distribution line transformers, the book cost of which is includible in account 368, Line Transformers. (See operating expense instruction 2.)

**596 Maintenance of street lighting and signal systems.**

This account shall include the cost of labor, materials used and expenses incurred in maintenance of plant, the book cost of which is includible in account 373, Street Lighting and Signal Systems. (See operating expense instruction 2.)

**597 Maintenance of meters.**

This account shall include the cost of labor, materials used and expenses incurred in the maintenance of meters and meter testing equipment, the book cost of which is includible in account 370, Meters, and account 395, Laboratory Equipment, respectively. (See operating expense instruction 2.)

**598 Maintenance of miscellaneous distribution plant.**

This account shall include the cost of labor, materials used and expenses incurred in maintenance of plant, the book cost of which is includible in accounts 371, Installations on Customers' Premises, and 372, Leased Property on Customers' Premises, and any other plant the maintenance of which is assignable to the distribution function and is not provided for elsewhere. (See operating expense instruction 2.)

Items

a. Work of similar nature to that listed in other distribution maintenance accounts.

b. Maintenance of office furniture and equipment used by distribution system department.