

03  
STATE  
RULES

**COPY**

**A “SEPARATE” rule transmittal sheet must be used for EACH individual rulemaking.**

JCAR Stamp

**E. ORDER OF RULEMAKING; Rule Number** \_\_\_\_\_

**1a. Effective Date for the Order**

☐ Statutory 30 days  
Specific date \_\_\_\_\_

**1b. Does the Order of Rulemaking contain changes to the rule text?**

☐ YES ☐ NO

**1c. If the answer is YES, please complete section F. If the answer is NO, STOP here.**

**F. Please provide a complete list of the changes in the rule text for the order of rulemaking, indicating the specific section, subsection, paragraph, subparagraph, part, etc., where each change is found. It is especially important to identify the parts of the rule that are being deleted in this order of rulemaking. This is not a reprinting of your order, but an explanation of what sections, subsections, etc. have been changed since the original proposed rule was filed.**

(Start text here. If text continues to a third page, insert a continuous section break and, in section 3, delete the footer text. DO NOT delete the header, however.)

NOTE: ALL changes MUST be specified here in order for those changes to be made in the rule as published in the *Missouri Register* and the *Code of State Regulations*.

Add additional sheet(s), if more space is needed.



## Missouri Public Service Commission

**Commissioners**  
**KELVIN L. SIMMONS**  
Chair  
**CONNIE MURRAY**  
**STEVE GAW**  
**BRYAN FORBIS**  
**ROBERT M. CLAYTON III**

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October 30, 2003

**ROBERT J. QUINN, JR.**  
Executive Director  
**WESS A. HENDERSON**  
Director, Utility Operations  
**ROBERT SCHALLENBERG**  
Director, Utility Services  
**DONNA M. PRENGER**  
Director, Administration  
**DALE HARDY ROBERTS**  
Secretary/Chief Regulatory Law Judge  
**DANA K. JOYCE**  
General Counsel

Honorable Matt Blunt  
Secretary of State  
600 West Main Street  
Jefferson City, Missouri 65101

### ATTENTION: Administrative Rules Division

I do hereby certify that the attached are accurate and complete copies of the Proposed Amendments to Existing Rules lawfully submitted by the Missouri Public Service Commission for filing this 30th day of October 2003, that a takings analysis and small business impact analysis have occurred and that these proposed amendments do not constitute a taking of real property under relevant state and federal law.

Rules: 4 CSR 240-3.500	Definitions Pertaining Specifically to Telecommunication Company Rules
4 CSR 240-3.550	Telecommunication Company Records and Reports
4 CSR 240-32.020	Definitions
4 CSR 240-32.060	Engineering and Maintenance
4 CSR 240-32.070	Quality of Service
4 CSR 240-32.080	Service Objectives and Surveillance Levels

Statutory authority: 386.040, 386.250, 386.310, and 392.200, RSMo (2000)

Missouri Public Service Commission Case No. TX-2004-0106

If there are any questions, please contact: **Bruce H. Bates**, Associate General Counsel  
Missouri Public Service Commission  
200 Madison St.  
Post Office Box 360  
Jefferson City, Missouri 65102  
(573) 751-7434

Sincerely,

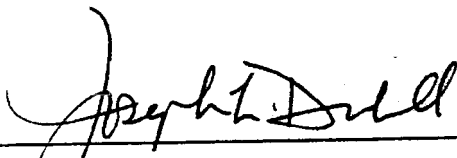
**Dan Joyce**  
General Counsel  
Missouri Public Service Commission

Enclosures

## AFFIDAVIT

STATE OF MISSOURI   )  
                                  )  
COUNTY OF COLE     )

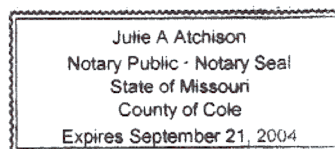
I, Joseph L. Driskill, Director of the Department of Economic Development, first being duly sworn on my oath state that it is my opinion that the cost of the **Proposed Amendment to 4 CSR 240-32.060 – Engineering and Maintenance**, is less than five hundred dollars (\$500) in the aggregate to this agency, any other agency of state government or any political subdivision thereof.

  
\_\_\_\_\_  
Joseph L. Driskill  
Director  
Department of Economic Development

Subscribed and sworn to before me this 21<sup>st</sup> day of October, 2003.

I am commissioned as a notary public within the County of Cole  
State of Missouri, and my commission expires on September 21, 2004

  
\_\_\_\_\_  
NOTARY PUBLIC



Title 4 – DEPARTMENT OF ECONOMIC DEVELOPMENT **RECEIVED**  
Division 240 – Public Service Commission  
Chapter 32 – Telecommunications

**COPY** OCT 20 2003  
SECRETARY OF STATE  
ADMINISTRATIVE RU

**PROPOSED AMENDMENT**

**4 CSR 240-32.060 Engineering and Maintenance.** The commission is amending section (2) and remaining sections.

*PURPOSE: This amendment change provides clarification to Engineering and Maintenance specifications in the rule resulting from telecommunications technical advancements and upgrades.*

*[(2) Trunk circuits shall be full metallic or equivalent (for example, microwave, carrier, etc.)]*

*[(3)2] Grounded circuits will not be permitted except for signaling purposes [and party line identification].*

*[(4)3] All access line loops and trunk facilities shall be compatible with the transmission design factors required for a modern telecommunications network.*

*[(5)4] Each company shall make reasonable provisions to meet emergencies resulting from lightning or power service failures, unusual and prolonged increases in traffic, absence of personnel, fire, storm or other natural disasters and shall inform its employees of procedures to be followed in the event of emergency in order to prevent or minimize interruption or impairment of telecommunications service. Each central office shall contain as a minimum three (3) hours of battery reserve. In each office without installed emergency power facilities, there shall be a mobile power unit available which can be delivered and connected on short notice. In each central office, other than a controlled environmental vault, serving more than five thousand (5,000) lines, a permanent auxiliary power unit shall be installed.*

*[(6)5] Each company shall adopt and pursue a maintenance program aimed at achieving efficient operation of its system to provide [for] safe and adequate service at all times. Maintenance shall include proper repair and adjustment of all facilities and equipment, for example:*

*(A) Broken, damaged or deteriorated parts which are no longer serviceable shall be repaired or replaced;*

*(B) Adjustable apparatus and equipment shall be readjusted when in an unsatisfactory operating condition; and*

*(C) Electrical faults, such as leakage or poor insulation, noise induction, cross talk or poor transmission characteristics shall be corrected to meet the commission standards set forth in this rule.*

*[(7)6] Each company shall adopt a program of periodic tests, inspections and preventive maintenance aimed at achieving efficient operation of its system and rendering safe and adequate service to its customers.*

**(/8/7)** Each company shall monitor the actual transmission performance of the network to determine if the established objectives and operating requirements are met. This monitoring function shall consist of circuit order tests prior to placing trunks in service, routine periodic trunk maintenance tests, tests of actual switched trunk connections, periodic tests of a sample of access line loops in each exchange for noise and electrical faults, and special transmission surveys of the network.

**(/9/8)** In the event that service must be interrupted for purposes of working on the lines or equipment, the work shall be done in a manner which will cause minimal inconvenience to customers, except in emergency situations. Each company shall attempt to notify each affected customer in advance of an extended interruption. Each company shall make every effort to accommodate emergency services and customers with extraordinary needs.

**(/10/9)** On a going-forward basis, each telecommunications company shall bond and ground its facilities to the multigrounded neutral wire of the company providing electricity. If vertical (pole) ground wires have not been strategically placed, at the beginning or end of power exposures or where power company equipment is located, the telecommunications company should coordinate with the power company to have those vertical neutral ground wires placed. Each telecommunications company shall be prepared and properly equipped to measure ground connections to ensure that the bonds and grounds are functional. As appropriate, connections shall be measured with proper test equipment. All construction, removal, and maintenance work will at all times comply with the current editions of the *National Electric Safety Code* and the *National Electric Code*.

**(/11/10)** Each company shall maintain the following specifications for its outside plant:

(A) Access line loops shall not have a loop resistance that exceeds the operating design of the connected central office equipment. Loop resistance greater than the design of the central office equipment shall have long line adapters, voice frequency repeaters or other special equipment. Subscriber loops not served by analog or digital carrier technologies shall maintain a minimum of twenty-three (23) milliamperes of loop current when measured at the customer's premises;

(B) Transmission loss of access line loops shall not exceed eight and five-tenths (8.5) decibels when measured at one thousand (1,000) hertz. Loops that are measured with more loss shall be corrected to a maximum loss of eight and five-tenths (8.5) decibels; and

(C) Where inductive loading is necessary, loading procedures shall conform to industry standards for forty-four (44), sixty-six (66) or eighty-eight (88) millihenry load coil spacings.

**(/12/11)** Each company shall investigate and pursue corrective action for the following faults on working cable pairs when they are detected with the customer's equipment disconnected:

(A) A leakage tip to ring, tip to ground or ring to ground of forty thousand (40,000) ohms of resistance or less;

(B) An imbalance between the tip and ring of a cable pair of ten percent (10%) or more when measured from the central office with a cable analyzer;

(C) A balance reading below sixty (60) decibels with reference to noise with C-message weighting (dBmC), measured by a noise measuring test set, where the noise metallic reading is subtracted from the power influence when the power influence reading is over seventy (70) dBmC;

(D) Voltage of ten (10) volts direct current (DC) or more on either side of a dry cable pair when measured from the central office;

(E) A power influence reading of ninety (90) dBmC or more on the cable pair when measured from the central office;

(F) A noise metallic reading of thirty (30) dBmC or more on the cable pair when measured from the central office;

(G) An alternating current voltage on the tip or ring to ground of more than fifty (50) root mean square volts; and

(H) Any other fault that affects or may contribute to service degradation.

(/13/12) Transmission loss on trunks that only carry traffic within a local calling scope shall not exceed six (6) decibels of loss.

(/14/13) Transmission loss on trunks that carry long distance traffic shall not exceed four (4) decibels of loss.

(/15/14) The following are requirements for placement of buried cable:

(A) Buried telephone feeder and distribution cable shall be placed at a minimum depth of twenty-four inches (24") of coverage unless the company determines that good cause could be shown;

(B) Buried drop cable shall be placed at a minimum depth of twelve inches (12") of coverage unless the company determines that good cause could be shown;

(C) Trenching and plowing of cable shall be performed in such a way as to prevent unnecessary damage to private and public property;

(D) When it is necessary to plow or trench cable across private land, a company shall obtain permission or easement (written, if possible) from the owner before the work is performed; and

(E) When performing any work that endangers other companies' buried utility facilities, telecommunications companies shall fully comply with *Missouri Revised Statutes*, Chapter 319, sections 319.010 through 319.075.

(/16/15) When there is no available existing network interface device, a company shall install a network interface device when service is installed if installation requires a premises visit. If a premises visit is not required, then the company shall install a network interface device when existing service locations are next visited by company service personnel under normal conditions. At those locations where a network interface device has not been installed or is not accessible to the customer, the company shall not charge a trouble isolation fee even if the trouble is on the customer's side of the protector *[unless the company's approved tariff provides otherwise as of the effective date of this rule]*. However, if the customer refuses, and signs a refusal, to allow placement of a network interface device on the outside of a premises, the company may charge the customer for isolating the trouble when the cause of the trouble is found inside the premises.

**AUTHORITY:** sections 386.040, RSMo 1994 and 386.250, 386.310 and 392.200, RSMo Supp. 1998. \* Original rule filed Dec. 11, 1975, effective Dec. 23, 1975. Amended: Filed Nov. 12, 1976, effective May 20, 1977. Amended: Filed March 15, 1978, effective Oct. 2, 1978. Rescinded and readopted: Filed Jan. 5, 1999, effective Sept. 30, 1999.

**\*Original Authority:** 386.040, RSMo 1939; 386.250, RSMo 1939, amended 1963, 1967, 1977, 1980, 1987, 1988, 1991, 1993, 1995, 1996; 386.310, RSMo 1939, amended 1979, 1989, 1996; and 392.200. RSMo 1939, amended 1987, 1988, 1996.

***PUBLIC COST:*** This proposed amendment will not cost state agencies or political subdivisions more than five hundred dollars (\$500) in the aggregate.

***PRIVATE COST:*** This proposed amendment will not cost private entities more than five hundred dollars (\$500) in the aggregate.

***NOTICE TO SUBMIT COMMENTS:*** Anyone may file comments in support of or in opposition to this proposed amendment with the Missouri Public Service Commission, Dale Hardy Roberts, Secretary of the Commission, PO Box 360, Jefferson City, MO 65102. To be considered, comments must be received within thirty (30) days after publication of this notice in the ***Missouri Register***. No public hearing is scheduled.