

ORDINANCE NO. 229

AN ORDINANCE AMENDING ORDINANCE NO. 171, SECTION 7,  
 BY ADDING THE REQUIREMENT THAT ALL CONDUCTORS USED  
 TO CARRY ELECTRIC CURRENT SHALL BE OF COPPER OR  
 OTHER SUITABLE AND APPROVED MATERIAL AND SETTING  
 OUT SPECIFICATIONS FOR CONNECTORS.

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF MESQUITE, TEXAS:

SECTION 1. THAT Section 7 of Ordinance 171 shall be amended by  
 adding the following paragraph:

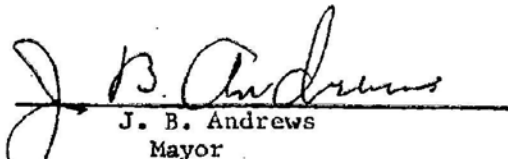
All conductors used to carry electric current which are installed within the corporate City Limits of Mesquite shall be of copper or other suitable and approved material such as gold and silver. Aluminum conductors may be used provided that the proper precaution is taken to prevent unsafe installations as a result of oxide films, thermal expansion, electrolytic action, galvanic action, and plastic flow, as well as normal precaution required for any other type of conductor. All connectors used on aluminum conductors shall have the same coefficient of expansion as the conductors and shall be of the circumferential pressure type so designed that uniform and equal pressure will be applied to the periphery of each separate strand of the conductor in such a manner as to effectively remove all voids between such strands, minimize the adverse effect of oxide films between such strands, and effectively lock the conductor into a solid mass within the connector to prevent creep, plastic flow, or extrusion of the metal. Aluminum connectors shall be designed for the exact conductor size for which it is used. Connectors for multiple size conductors shall not be used. Set-screw type connectors or variations of the set-screw type shall not be used. Multiple bolt clamp type connectors shall not be used unless designed for a single size and unless it has not less than a 2 to 1 ratio of cable pressure to bolt pressure. Connectors used to connect aluminum conductors to copper conductors shall be especially designed for the purpose and so installed that when the joint is complete the aluminum will be and remain above the copper. Aluminum conductors shall not be soldered. Bus connections shall be covered with an oxide inhibitor grease after sanding and connected with aluminum bolts with two washers on each side of each bolt, one designed to prevent the bolt from tearing the bus and the other designed to prevent loosening of the joint.

SECTION 2. THAT this ordinance shall be in effect and force from and after the date of passage.

PASSED AND APPROVED this the 3rd day of March, 1959.

ATTEST:

  
 Norma G. McGaughey  
 City Secretary

  
 J. B. Andrews  
 Mayor