

<p style="text-align: center;">SUBJECT <b>ELECTRIC DISTRIBUTION STANDARD OPERATING PROCEDURES</b></p>	<p style="text-align: center;">ISSUED BY  <b>CITY COUNCIL</b></p>	<p style="text-align: center;">EFFECTIVE DATE  <b>APRIL 6, 2009</b></p>
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### **POLICY STATEMENT:**

#### ***Purpose:***

This policy is to help guide all city staff as to the proper methods and materials to use when making upgrades or repairs to the City's electric distribution system.

### **STANDARDS:**

The following standards should be used when making repairs, upgrades, or constructing new portions of the City's electric distribution system.

- If any solid copper primary conductor is damaged beyond reasonable repair it shall be replaced with ACSR of equal or greater current carrying capability (e.g. #4 solid copper conductor would be replaced with #2 ACSR).
- If any three or four wire open secondary conductors, copper or aluminum are damaged beyond reasonable repair it shall be replaced with aluminum triplex or quadruplex of equal or greater current carrying capability (e.g. #2 stranded copper three wire open secondary would be replaced by 1/0 triplex).
- Any pole in the distribution system that must be replaced shall be replaced with a class 4 pole or larger.
- Any junction pole, pole with a single transformer 100KVA or larger, pole with two transformers 75KVA or larger, or pole with three transformers 50KVA or larger shall be class 3 or larger if available. If not available it shall be supported by a platform consisting of two class 4 poles and a horizontal structure between the poles for the transformer(s) to set on.
- Any pole in the distribution system that must be replaced may be replaced with a taller pole, if deemed necessary, to accommodate clearances from other utilities, as well as to provide greater clearances for City owned utilities.
- Any pole in the distribution system that is replaced shall be framed to RUS specifications for 12/47/7.2kV line construction.
- Any porcelain box type fused cutout shall be replaced with a new porcelain or polymer fused cutout.
- Any crossarm shorter than eight feet long that must be replaced shall be replaced with an eight foot crossarm.

- Any eight foot crossarm that must be replaced shall be replaced with an eight foot (or ten foot if deemed necessary) crossarm.
- Any ten foot crossarm that must be replaced shall be replaced with a ten foot crossarm.
- Any earth anchor that must be replaced shall be replaced with a ten inch screw in anchor on secondary, single phase, or two phase guying applications with a minimum of one 3/8" guy wire. A twelve inch screw in anchor shall be used on three phase guying applications with a minimum of two 3/8" guy wires for 1/0 or larger conductor (a single 3/8" guy wire may be used for smaller than 1/0 conductor). Note: if earth anchor is in an inaccessible area a bust anchor and 5/8" rod may be used.
- Any primary underground conductors damaged beyond repair shall be replaced with 15kV rated aluminum cable with equal or greater current carrying capability.
- Any pole top type or suspension type insulator not rated for 8kV or greater shall be replaced with an 8kV or greater rated insulator.
- Any primary, current carrying connection must be a compression type, wejtap type, or a tap clamp on a stirrup.

Approved By: \_\_\_\_\_

Harold H. Jones, Jr., Mayor