

PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA

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RESOLUTION NO.

E-952

R E S O L U T I O N

UTILITIES DIVISION
 SECTION: Electric
 DATE: March 26, 1957

SUBJECT: Permission to Modify Loading Districts and Conditions
 and to Modify Ground Clearances Per Rules 43 and 54.4-A(1)
 of General Order No. 95

WHEREAS: MOUNTAIN EMPIRE ELECTRIC COOPERATIVE, INC., has by letter dated January 24, 1957, requested permission to construct a 27-mile 69 kv transmission line in San Diego County under less severe loading conditions than those specified under Rule 43.1 of General Order No. 95 and also has requested permission to construct the major portion of the transmission line with a minimum ground clearance of 25 feet, and

WHEREAS: The company has made a showing to the effect that conditions in the field equivalent to those prescribed for heavy loading districts are not experienced below 4,500 feet and that an intermediate loading condition is experienced between 3,000 and 4,500 feet and that no lessening of adequate safety will ensue as the result of modifying the provisions of General Order No. 95 so as to meet such field conditions, and

WHEREAS: The proposed transmission line will traverse arid and mountainous areas where economies in construction may be gained without creating undue hazards to the public by using the minimum ground clearance of 25 feet as permitted by special Commission authorization under Rule 54.4-A(1), and

WHEREAS: The proposed route has been investigated in the field,

IT IS FOUND that the requests should be granted, and good cause appearing,

I. IT IS HEREBY ORDERED that the Mountain Empire Electric Cooperative, Inc., may deviate from Rule 43.1 of General Order No. 95 by using in the design, construction and maintenance of its overhead lines, temperature and loading conditions as follows:

1. Intermediate loading shall apply where the elevation above sea level is greater than 3,000 feet but not greater than 4,500 feet. This loading shall be taken as the resultant stress due to wind, ice and dead weight under the following conditions:

A. Wind - A horizontal wind pressure of 4 pounds per square foot on cylindrical surfaces, and 7 pounds per square foot on flat surfaces shall be assumed.

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Page 2

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- B. Ice - A radial thickness of one-quarter inch of ice, weighing 57 pounds per cubic foot, on all conductors shall be assumed in computing vertical and wind loadings.
- C. Temperature - Temperature shall be considered to be 15° F. at the time of maximum loading. The normal temperature for computing erection conditions is 60° F. Maximum temperature shall be assumed as 130° F. in computing sag under this condition.
- 2. Heavy loading shall apply where the elevation above sea level exceeds 4,500 feet. This loading shall be taken as the resultant stress due to wind, ice and dead weight under the conditions specified in Rules 43.1-A, 43.1-B and 43.1-C.
- 3. The above modified loading conditions and districts shall apply only within the certified service area of the Mountain Empire Electric Cooperative, Inc., as established by the Commission's Decision No. 48060, dated December 16, 1952.

II. IT IS HEREBY FURTHER ORDERED that permission be granted the Mountain Empire Electric Cooperative, Inc., to construct the major portion of the proposed 69 kv transmission line with a modified minimum ground clearance of 25 feet as provided under Rule 54.4-A(1) of General Order No. 95, under the following conditions:

- 1. Where conditions other than those in Rule 54.4-A(1) are encountered, the clearances as set forth in Rule 37, Table 1, shall be strictly followed.
- 2. The construction route shall be substantially the same as that shown on the map submitted with company's letter of request dated January 24, 1957.

The Secretary is directed to cause appropriate notice to be given said utility of the granting of such authorization.

I hereby certify that the foregoing Resolution was duly introduced, passed and adopted at a regular session of the Public Utilities Commission of the State of California, held on the 26th day of March, 1957, the following Commissioners voting favorably thereon:

PETER H. MITCHELL
RAY E. UNTERMYER
MATTHEW J. DOOLEY
REX HARDY
C. LYN FOX



Secretary