

ORIGINALDecision No. 44716

BEFORE THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA

In the Matter of the Application of
SOUTHERN CALIFORNIA EDISON COMPANY
for a Certificate that Present and
Future Public Convenience and Necessity
Require, or will Require, the Construc-
tion, Operation and Maintenance by
Applicant of an Electrical Transmission
Line to be known as the Magunden-Mesa
Transmission Line, in the Counties of
Kern and Los Angeles, State of California

Application No. 31248

O P I N I O N

Southern California Edison Company, by the above-entitled application, filed April 3, 1950, requests a certificate of public convenience and necessity authorizing it to construct, operate, and maintain a new electric transmission line to be known as the Magunden-Mesa Transmission Line. This line is to provide a connection between applicant's Magunden Substation, in Kern County, and its Mesa Substation, in Los Angeles County. A map showing the general location of the line in Kern and Los Angeles Counties is attached to the application as Exhibit "A."

Applicant plans to acquire rights of way, easements, and necessary lands and erect steel towers, cables, ground wires, transformers, and associated facilities sufficient to transmit electrical energy at a potential of approximately 230,000 volts. The line will approximate 119½ miles in length, having 605,000 cm ACSR conductors of 30/19 stranding, and a rated maximum capacity of 200,000 kva. A new transformer bank of 250,000 kva is planned at Magunden while the load end at Mesa Substation will utilize existing transformers already in service. A high voltage switch position is to be provided for each end of the line.

Applicant estimates the total cost of the project to be \$6,715,000, segregated as follows:

Land and Land Rights	\$1,235,000	
Steel Towers and Fixtures	2,410,000	
Overhead Conductors and Devices	1,630,000	
Roads and Trails	<u>149,000</u>	\$5,424,000
Associated Switching Facilities		
220 kv Switch Position at Magunden	230,000	
220 kv Switch Position at Mesa	<u>179,000</u>	409,000
Associated Power Transformers and Facilities		<u>882,000</u>
Total Estimated Cost		6,715,000

Based upon an estimated 2,800,000,000 kwhr of energy transmitted in an average year, reduced by respective estimated losses and after allowing for estimated kwhr saved by reduced transmission losses resulting from addition of the proposed line, the estimated increase in cost of energy from the Big Creek Plants delivered to load centers in Los Angeles is 0.16 mills per kwhr.

With respect to the need for this project, applicant has indicated that the electric load on its system is continuing to grow and that the existing transmission lines do not have sufficient capacity and stability margins to transmit the increased energy necessary to meet anticipated load requirements. The proposed line will increase the Big Creek transmission system capacity and stability to an estimated 627,000 kw during heavy summer load conditions, providing a stability margin of 113,000 kw at the time the Big Creek Plants (including Big Creek No. 4) are operating at capacity. The proposed transmission line will also improve the interchange capabilities of its tie with Pacific Gas and Electric Company, by permitting 226,000 kw of interchange power to be transmitted from Magunden to the Los Angeles area during heavy summer load conditions. It is further indicated that the proposed transmission line will reduce transmission line losses for the over-all Big Creek Transmission System.

The record before the Commission indicates that the utility has the financial means to install, operate, and maintain the proposed transmission line and its appurtenances. Applicant states that the proposed transmission line will not compete with any other public utilities, corporations, or persons; therefore, a certificate of public convenience and necessity will be granted to applicant.

The certificate of public convenience and necessity hereinafter granted is subject to the following provisions of law:

That the Commission shall have no power to authorize the capitalization of this certificate of public convenience and necessity or the right to own, operate, or enjoy such certificate of public convenience and necessity in excess of the amount (exclusive of any tax or annual charge) actually paid to the State as the consideration for the issuance of such certificate of public convenience and necessity or right.

O R D E R

The Commission having considered the above-entitled application and being of the opinion that a public hearing thereon is not necessary,

IT IS HEREBY FOUND AS A FACT that the present or future public convenience and necessity require or will require the construction, operation, and maintainance of an electric transmission line by Southern California Edison Company between its Magunden and Mesa Substations in the area set forth in the map marked as Exhibit "A" in this proceeding; therefore,

IT IS HEREBY ORDERED that a certificate of public convenience and necessity be and it is granted Southern California Edison Company to construct, operate, and maintain a high-voltage electric transmission line to be known as the Magunden-Mesa Transmission Line within the area hereinbefore described.

The effective date of this order shall be twenty (20) days after the date hereof.

Dated at San Francisco, California, this 29th day of August, 1950.

R. Z. Smith
Justice J. Calmes
Harold P. Hild
Percey H. Satter
Commissioners.