

Decision No. 81065

ORIGINAL

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 the present )  
and future public convenience and )  
necessity require or will require )  
reconstruction and operation by )  
applicant of the Barre-Del Amo and )  
Del Amo-Ellis 220-kv transmission )  
lines. )

Application No. 53574  
(Filed September 8, 1972)

OPINION AND ORDER

By this application Southern California Edison Company (Edison) seeks an order of the Commission granting it a certificate pursuant to General Order No. 131 that the present and future public convenience and necessity will require the reconstruction and operation of the Barre-Del Amo and Del Amo-Ellis 220-kv transmission lines, the reconstructed portion of which will be located in the Cities of Cerritos, Anaheim, Stanton, La Palma, and Buena Park, Orange County, California.

As required by Section 6 of General Order No. 131, proper notice of the filing of this application was given by Edison to the planning commissions and legislative bodies of the county and each city in which the proposed reconstructed facility will be located and to the State Highway Engineer. In addition, notice was given to the general public by advertisement, appearing once a week for two successive weeks in newspapers of general circulation in the location area.

As required by Section 5 of General Order No. 131 Edison submitted the following data:

The Proposal

Edison proposes to reconstruct and operate a 220-kv transmission facility from Edison's Del Amo Substation to its

Barre Substation, an approximate distance of 9.7 miles. The new transmission facility will be of double circuit construction, consisting of circuits designated as the Barre-Del Amo and Del Amo-Ellis 220-kv lines.

The proposed transmission facilities will be formed by reconstructing the existing 9.7 mile, 220-kv, double-circuit transmission facility between Barre and Del Amo Substations, terminating one circuit at Barre Substation to form the Barre-Del Amo 220-kv line, and connecting the other circuit to an existing double-circuit 220-kv transmission facility between Barre and Ellis Substations to form the Del Amo-Ellis 220-kv line.

Necessity for the Proposed Reconstruction of Transmission Facility

The reconstruction of the existing 220-kv lines and formation of the new lines is required by July 1, 1974 to avoid imposing overloads in excess of acceptable ratings on three existing 220-kv transmission lines for six different line-out contingency conditions during 1974 summer heavy loading periods and on one existing 220-kv transmission line under four different line-out contingency conditions during 1974 winter heavy loading periods. During these contingencies transmission line loadings could be as high as 48 percent above normal ratings in the summer of 1974 and 64 percent above normal in the winter of 1974. Conditions would be even more severe in 1975 heavy loading periods.

The proposed transmission line reconstruction and reformation will provide an economic, efficient, and reliable means of avoiding these overloads and reinforcing the Edison transmission system to meet the increasing demand for electric service in the areas served by Barre, Ellis, and Del Amo Substations in Orange County.

Location and Description

The transmission facility to be reconstructed is now located within the boundaries of the following governmental agencies: The City of Cerritos, the City of Anaheim, the City of Stanton, the City of La Palma, and the City of Buena Park. A map of the route, Exhibit B attached to the application, shows details of the right-of-way in the vicinity of settled areas, parks, recreational areas, and existing transmission lines within one mile of the proposed reconstruction.

The area is, in general, a fully developed residential area. There are numerous parks and recreational areas within one mile of the lines. Several of these parks and recreational areas are located on Edison-owned rights-of-way and were developed under cooperative agreements between Edison and the local governmental agencies. Most of the other parks and recreational areas are city-owned and no larger than a few acres. Knott's Berry Farm, a well-known point of interest, is also situated within one mile of the existing lines.

The proposed reconstruction will be accomplished on the same right-of-way now occupied by the existing lines and will utilize contemporary structures designed to be aesthetically pleasing to replace the existing square-based, lattice steel towers, which will improve both present and future appearances of the right-of-way. A sketch of a typical tower is attached to the application as Exhibit C. Accordingly, the proposed reconstruction of these transmission lines will not produce an unreasonable burden on natural resources or aesthetics of the area.

A description of the proposed transmission lines as reconstructed and the estimated cost are:

	<u>Existing</u>	<u>New</u>
a. Line Length (between Del Amo and Barre)	9.7 miles	9.7 miles

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b. Type of Conductor	Aluminum conductor steel reinforced (ACSR)	Aluminum conductor steel reinforced (ACSR)
c. Size of Conductor	605 MCM ACSR 30/14	1590 MCM ACSR 45/7
d. Conductor Configuration	One conductor per phase	Two horizontal bundled conductors per phase
e. Thermal Capacity (between Del Amo and Barre)	820 Amps	3,070 Amps
f. Voltage (initial and ultimate)	220-kv	220-kv
g. Structures	Double circuit lattice steel towers	Double circuit aesthetic contemporary
h. Height of Structure	140 feet average	140 feet average
i. Average Span Length	1,000 feet	1,000 feet
j. Estimated Construction Cost		\$3,415,400

Since the reconstructed transmission lines are to replace existing facilities, only existing right-of-way is to be used. Access roads which are used for the maintenance of existing lines will be used for the construction and maintenance of the reconstructed transmission facilities. Any alternative plan would require a new utility corridor through already developed areas. Accordingly, the present location of these lines provides the most acceptable route from the standpoint of existing and planned development in the area and will produce less of an impact on the aesthetics of the area than any other practicable alternative.

Reconstruction Schedule

The estimated schedule for the reconstruction of the lines is:

	<u>Start</u>	<u>Complete</u>
Foundations	Sept. 1973	Dec. 1973
Tower Erection	Nov. 1973	Mar. 1974
Conductor Stringing	Jan. 1974	June 1974
Completion	July 1974	

Governmental Agency Review

The effect of the proposed line reconstruction on community values was reviewed with the Cities of Cerritos, Anaheim, Stanton, La Palma, and Buena Park. Each of these cities was furnished with maps showing where the proposed reconstruction is to be accomplished and was requested to provide a brief written position statement. Copies of the responses of Cerritos, Stanton, La Palma, and Buena Park are attached to the application as Exhibit D. The four cities either approve or offer no objection to Edison's proposal.

Due to various legal proceedings currently pending between Edison and the City of Anaheim, Edison has not obtained a position statement from the City of Anaheim. By its letter dated December 6, 1972, the Commission's staff informed the City of Anaheim that it had reviewed this application, sees no objection to Edison's proposal, and plans to recommend that the application be granted ex parte.

Notice of the proposed reconstruction of these lines will be filed with the Federal Aviation Administration. Based on the applicable criteria of Part 77, Federal Aviation Regulations, Edison is informed that the proposed structures will not have a substantial adverse effect upon the safe and efficient use of navigable airspace and will not be a hazard to air navigation.

No request for a public hearing has been received by the Commission.

Findings

1. The reconstruction, re-formation, and operation by Edison of the Barre-Del Amo and Del Amo-Ellis 220-kv transmission lines, as described in the application, is reasonably required to meet area demands for present and future reliable and economic electric service.

2. The reconstruction, re-formation, and operation of these transmission lines, as proposed by Edison, will not produce an unreasonable burden on natural resources, aesthetics of the area in which located, public health and safety, air and water quality in the vicinity, or parks, recreational and scenic areas, or historic sites and buildings or archeological sites, or community values, nor will it otherwise have any undue influence on the environment.

3. Edison's proposal is in the public interest; public convenience and necessity now require and will require the reconstruction and re-formation of the 220-kv transmission facility described in this application; a public hearing is not necessary.

The Commission concludes that a certificate should be issued.

The certificate herein granted shall be subject to the following provision of law:

"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."

The action taken herein is for the issuance of a certificate of public convenience and necessity only and is not to be considered as indicative of amounts to be included in a future proceeding for the purpose of determining just and reasonable rates.

IT IS ORDERED that a certificate of public convenience and necessity is granted to Southern California Edison Company to reconstruct, operate, maintain and use the Barre-Del Amo and Del Amo-Ellis 220-kv transmission lines, together with related appurtenances, as described in the application.

The authorization herein granted shall expire if not exercised within three years from the date hereof.

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

Dated at San Francisco, California,  
this 21st day of FEBRUARY, 1973.

Vernon L. Sturgeon  
President  
William J. Sepuro  
William J. Sepuro  
William J. Sepuro  
Commissioners