

Decision No. 46072

**ORIGINAL**

BEFORE THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA

In the Matter of the Application of )  
SOUTHERN CALIFORNIA EDISON COMPANY, )  
a corporation, for an Order of the )  
Public Utilities Commission of the )  
State of California authorizing it )  
to enter into a certain agreement )  
with the City of Los Angeles and )  
its Department of Water and Power )  
for a 200,000 Kva Interconnection. )

Application No. 32609.

OPINION AND ORDER

Southern California Edison Company, a corporation, by the above-entitled application filed July 24, 1951, requests an order of the Commission authorizing it to carry out the terms and conditions of an agreement dated July 1, 1951, with the City of Los Angeles and its Department of Water and Power. Said agreement is entitled "City-Edison 200,000 Kva Interconnection Agreement" and relates to the interconnection of the electric systems of the parties between the Laguna Bell Substation of the company and the Century Receiving Station of the City, such interconnection to be established with a capacity of approximately 200,000 kva. A copy of the contract marked Exhibit "A" is attached to the application and by reference is made a part hereof for all purposes.

By its Decision No. 45386 dated February 27, 1951, in Application No. 32020, the Commission authorized Southern California Edison Company to carry out the terms and conditions of a written agreement dated January 25, 1951, effective March 19, 1951, known as the "City-Edison 1951 Interchange Agreement", providing for the interchange of energy and generating capacity through both the existing interconnections and such new interconnections as from time to time may be agreed upon.

The agreement herein being considered recites that both parties thereto desire to establish a new interconnection of approximately 200,000 kva capacity, the same to be installed and ready for use on or before September 1, 1952. In its application applicant alleges that the said interconnection will be in the interest of continuous and dependable electric service in the communities served, respectively, by applicant and the City, and will be beneficial from the viewpoint of the security holders and consumers of each of the parties to the agreement.

Under the agreement the new interconnection would be between the Laguna Bell Substation of the company and the Century Receiving Station of the City with a capacity of approximately 200,000 kva. Such stations, respectively, will be served by facilities of the owners thereof enabling the system of each such owner either to load the new interconnection facilities, <sup>or</sup> ~~or~~ deliver energy, when and at such times as there is an obligation upon either of the parties to provide capacity for or deliver energy to the other. For the purpose of the interconnection of substations, the transmission line of applicant will connect with the City transmission line at a point in the vicinity of the intersection of the City's double circuit 287 kv transmission line and the City's 115 kv Seal Beach-Velasco transmission line, such point to be known as the "Point of Attachment". The proposed agreement further provides that the present approximately 100,000 kva 138/66 kv interconnection between the systems of the parties at Wilmington Receiving Station of the City will be retained as an interconnection until such time as its elimination is mutually agreed to, and that the present 90,000 kv 115/66 kv interconnection of the Laguna Bell Substation between the systems of the parties will be eliminated upon the completion of the proposed interconnection.

A single line diagram illustrating the proposed inter-connection was attached to the application as Exhibit "B".

The agreement provides in Article 5 that applicant, at its sole cost, will provide and maintain: (i) a three-phase transmission line of approximately 220 kv nominal voltage and approximately 200,000 kva capacity from its system at Laguna Bell Substation to and including the Point of Attachment, at an estimated cost of \$334,191, (ii) suitable 220 kv switching facilities at applicant's Laguna Bell Substation, at an estimated cost of \$200,000, and (iii) such protective relays, tie-line load control equipment, indicating instruments, and other miscellaneous control and protection devices as are mutually agreed upon between the parties, at an estimated cost of \$10,000. The total estimated cost to applicant of facilities to be installed at Laguna Bell Substation and between Laguna Bell and the Point of Attachment and to be owned by applicant is \$544,191.

The agreement further provides that each of the parties will provide one 100,000 kva 220/138 kv three-phase autotransformer to be connected in parallel and installed in the City's Century Receiving Station. The autotransformers will be provided with metering equipment consisting of: (i) 2 ratcheted watt-hour meters on each autotransformer, the meters registering delivery from applicant to the City to be compensated to include losses in transformers and transmission line, and (ii) two totalizing graphic demand meters, one for each direction of energy flow. Applicant will provide, at its sole cost, and make available to the City the meters herein specified and a 220 kv grounding disconnect switch for installation on the 220 kv autotransformers. The estimated cost to applicant of these installations is \$388,405. The City will install said meters and grounding switch.

The excavations, concrete foundations, steel rack, assembly of both 100,000 kva autotransformers, and miscellaneous items incidental to the installation of transformers, meters and pertinent miscellaneous equipment and devices will be furnished and installed by the City and the cost thereof will be borne equally by the parties. The estimated cost to applicant of its share of such installations is \$23,320.

The total cost to applicant of all facilities to be installed is estimated by it to be \$955,916.

The proposed agreement provides in Article 6 that the City, at its sole cost, shall provide and maintain: (i) a three-phase transmission line of 287 kv nominal voltage suitable for operation at 220 kv and approximately 200,000 kva capacity from its system at Century Receiving Station to and including the Point of Attachment, (ii) suitable 138 kv switching facilities at its Century Receiving Station, and (iii) protective relays, tie-line load control equipment, indicating instruments, and other miscellaneous control and protection devices such as shall be mutually agreed upon.

The City will provide, at its sole cost, for the installation of the yard lighting, conduits and ducts, control and equipment cable, terminal cabinets, station grounding, 138 kv bus and the 220 kv bus essential to the installation of both 100,000 kva transformers.

The estimated cost to the City of facilities to be installed by it includes one 100,000 kva, three-phase autotransformer, \$380,861, 220 kv and 138 kv busses, \$4,947, miscellaneous conduits, cables, grounding and lights, \$3,538, labor and material equally shared, \$23,320, and 138 kv double switch position, \$126,000, a total of \$538,666.

The City will operate and maintain the facilities and the cost of such operation and routine maintenance will be borne equally by the City and applicant. The estimated annual cost to applicant of the operation and maintenance of the facilities is approximately \$16,800. The estimated losses of transformer and line are 1,484 kw. These estimated losses are alleged by applicant to be approximately 0.75% at full load on the interconnection.

The agreement provides that it will become effective upon the date authorized by the Commission and may be terminated by either party upon three years' written notice to the other. The agreement contains the usual release for reasons beyond the reasonable control of either party but does not provide for such changes or modifications as the Commission may direct in the exercise of its jurisdiction and as provided by General Order No. 96. The fact that such clause does not appear in the agreement does not in any way exempt the company or the contract from the Commission's continuing jurisdiction in this matter.

It appears to the Commission that the consummation of the agreement is in the public interest and the Commission so finds. The Commission having considered the proposed "City-Edison 200,000 Kva Interconnection Agreement" and being of the opinion that the agreement should be authorized and that a public hearing is not necessary, therefore,

IT IS HEREBY ORDERED that Southern California Edison Company is authorized to carry out the terms and conditions of that certain written agreement known as the "City-Edison 200,000 Kva Interconnection Agreement", dated July 1, 1951, with the City of Los Angeles and its Department of Water and Power, providing for

the establishment of a new interconnection of approximately 200,000 kva capacity, the same to be installed and ready for use on or before September 1, 1952.

Southern California Edison Company shall advise the Commission promptly of any termination notice given by either party to said agreement.

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

Dated at San Francisco, California, this 14<sup>th</sup> day of August, 1951.

R. J. Anderson  
Justus F. Casper  
Harold P. Hale  
Lawrence H. Potter

Commissioners.