

Decision No. 38549

BEFORE THE RAILROAD COMMISSION OF THE STATE OF CALIFORNIA

In the Matter of the Application of  
SOUTHERN CALIFORNIA EDISON COMPANY LTD.  
for Certificate that Present and Future  
Public Convenience and Necessity Require  
or will Require the Construction and  
Operation by Applicant of Works for the  
Diversion and Use of the Waters of  
Certain Small Streams Tributary to the  
South Fork of the San Joaquin River for  
the Generation of Electrical Energy.

ORIGINAL

Application No. 27019

OPINION AND ORDER

Southern California Edison Company Ltd., in this application, requests the Railroad Commission to issue a certificate of public convenience and necessity for the construction and operation in Fresno County of dams and accessory equipment to divert the waters of six small streams tributary to the South Fork of the San Joaquin River into Florence or Huntington Lake Reservoirs.

The proposed installations are divided into four separate units:

(1) Hooper, North Slide, and South Slide Creeks will be diverted by three concrete and masonry dams and connecting pipe lines into Florence Lake.

(2) Tombstone Creek will be diverted into Florence Lake by a masonry dam and another pipe line.

(3) Crater Creek will be diverted by a concrete dam, ditch, and natural channel into Florence Lake.

(4) Boisillo Creek will be diverted into the existing Ward Tunnel, connecting Florence Lake Reservoir with the Huntington Lake Reservoir, by means of a rock and earth-filled dam and a vertical tunnel.

The company states that upon the construction of said diversion works it is estimated that a noncoincidental total maximum flow of 167 second feet will be diverted for use through existing power houses, that 55,600,000 kilowatt hours of electric energy will be derived annually therefrom, and that the total cost of the aforesaid diversion works will not exceed \$412,400.

A segregation of estimated maximum flow to be diverted, the cost, and dam and pipe-line statistics are tabulated below:

	Dam			Pipe Line, etc.			Est. Max.	Cost	
	Height	Length	Material	Size	Length	sq. Ft./Sec.			
Hooper & Slide Creeks				Pipe Line					
Hooper Creek	30'	159'	Concrete	34"	13,200'	77	}	\$329,475	
North Slide Creek	5'	22'	Masonry	12"	1,100'	7			
South Slide Creek	5'	22'	Masonry			7			
Tombstone Creek	5'	26'	Masonry	14"	2,500'	16		46,085	
Crater Creek	9'	21'	Concrete	Ditch		760'	40	5,000	
Bolsillo Creek	6'	54'	Rock & Earth	Tunnel		400'	20	15,485	
Miscellaneous								16,355	
Total								\$412,400	

The waters to be diverted as described above will be used to augment the output of five hydroelectric stations now owned and operated by the company. The additional production and its relationship to the installed capacity and 1944 plant output as reported in Edison Company's annual report is shown in the following tabulation:

Big Creek Plants	Installed Capacity Kw	Net Gen. 1944 M-Kwh	Est. Add. Annual M-Kwh	% Increase in Est. Ann. Output
No. 1	67,000	440,341	7,990	1.81
No. 2	57,750	384,951	6,810	1.77
No. 2-A	80,000	319,180	10,250	3.21
No. 3	75,000	278,494	22,470	8.08
No. 8	54,000	622,039	8,080	1.30
Total	333,750	2,045,005	55,600	2.72

From the foregoing estimate it is clear that the construction of the diversion works herein proposed will develop a comparatively large amount of additional energy with a relatively small investment.

In view of the representation made by the applicant, the Commission is of the opinion that sufficient cause to grant the application prayed for exists, that a public hearing in the matter is unnecessary, and

IT IS ORDERED that Southern California Edison Company Ltd. be and it is hereby granted a certificate under Section 50(a) of the Public Utilities Act, that present and future public convenience and necessity require or will require the construction of the said diversionary works described in the application, the operation of same and the acquisition of all necessary permits, licenses, lands and rights of way required for said purpose.

The effective date of this Order is the date hereof.

Dated at San Francisco, California, this 21<sup>st</sup>  
day of December, 1945.

Harold Rudman  
Justin F. Cooney  
Francis C. Long  
W. H. Sullivan  
Harold P. Huls  
Commissioners