

7. APPLICATION FOR OVERHEAD WIRE CROSSING EASEMENT, TIDE AND SUBMERGED LANDS, SAN JOAQUIN RIVER, CONTRA COSTA AND SACRAMENTO COUNTIES; PACIFIC GAS AND ELECTRIC COMPANY - W.O. 5759, P.R.C. 3513.1.

After consideration of Calendar Item 30 attached, and upon motion duly made and carried, the following resolution was adopted:

THE EXECUTIVE OFFICER IS AUTHORIZED TO ISSUE TO PACIFIC GAS AND ELECTRIC COMPANY A 15-YEAR OVERHEAD-WIRE-CROSSING EASEMENT AT AN ANNUAL RENTAL OF \$559.39, WITH THE RIGHT TO RENEW FOR THREE ADDITIONAL PERIODS OF TEN YEARS EACH UPON SUCH REASONABLE TERMS AS THE STATE MAY THEN IMPOSE, OVER THE FOLLOWING-DESCRIBED LANDS:

A STRIP OF SUBMERGED LAND, OF THE UNIFORM WIDTH OF 400 FEET, EXTENDING ENTIRELY ACROSS THE SAN JOAQUIN RIVER, CONTRA COSTA AND SACRAMENTO COUNTIES; LYING 100 FEET NORTHEASTERLY AND 300 FEET SOUTHWESTERLY OF THE FOLLOWING-DESCRIBED CENTERLINE:

BEGINNING AT TRIANGULATION STATION "FALSE", ZONE III, LAMBERT COORDINATES (X = 1,658,969.65, Y = 567,982.82); THENCE S. 37° 08' W. 1,745.11 FEET; THENCE N. 39° 40½' W. 322.21 FEET TO A POINT ON THE ORDINARY HIGH WATER MARK OF THE SOUTHEASTERLY BANK OF THE SAN JOAQUIN RIVER, WHICH POINT IS THE TRUE POINT OF BEGINNING OF THE ABOVE-DESCRIBED CENTERLINE, THENCE CONTINUING N. 39° 40½' W. 1,870.57 FEET TO A POINT ON THE ORDINARY HIGH WATER MARK OF THE NORTHWESTERLY BANK OF SAID SAN JOAQUIN RIVER, CONTAINING 17.176 ACRES MORE OR LESS.

Attachment

Calendar Item 30 (2 pages)

30.

APPLICATION FOR OVERHEAD WIRE CROSSING EASEMENT, TIDE AND SUBMERGED LANDS, SAN JOAQUIN RIVER, CONTRA COSTA AND SACRAMENTO COUNTIES; PACIFIC GAS AND ELECTRIC COMPANY - W.O. 5759.

Pacific Gas and Electric Company has applied for an overhead easement for the construction and maintenance of two tower lines over the San Joaquin River as a part of its Table Mountain-Tesla 500 kv Tower Line. The crossing is approximately six miles northeast of Antioch (see Exhibit "A").

The applicant has offered the following statement relating to the comparative cost of overhead to underground construction:

"The highest voltage at present utilized for sub-surface (underground or submarine) transmission in this country is 345 kv.

"Extending the voltage levels to 500 kv involves technological problems that would require further years of research and development in order to bring this voltage class of cable and accessories into the realm of practicability. Research is now in progress which is pointed toward meeting this objective but at the present, both cables and accessories are not available for manufacture commercially. As with 115 and 230 kv cables, areas of rugged terrain will present situations in which an underground system is not technically feasible.

"Since 500 kv cable systems have not yet been developed by the cable and accessory manufacturers, cost estimates can be made only on a theoretical basis. In view of the large power transmitting capabilities of a 500 kv bundled conductor overhead system, 3 to 4 underground circuits would be required for an equivalent system. Cost ratios of a sub-surface installation to an overhead installation cannot be estimated within practical limits of accuracy at our present level of technology."

Based upon a staff appraisal, the annual rental for a 15-year easement would be \$559.39. The agreement would provide for three renewal periods of ten years each.

IT IS RECOMMENDED THAT THE COMMISSION AUTHORIZE THE EXECUTIVE OFFICER TO ISSUE TO PACIFIC GAS AND ELECTRIC COMPANY A 15-YEAR OVERHEAD-WIRE-CROSSING EASEMENT AT AN ANNUAL RENTAL OF \$559.39, WITH THE RIGHT TO RENEW FOR THREE ADDITIONAL PERIODS OF TEN YEARS EACH UPON SUCH REASONABLE TERMS AS THE STATE MAY THEN IMPOSE, OVER THE FOLLOWING-DESCRIBED LANDS:

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CALENDAR ITEM 30. (CONTD)

BEGINNING AT TRIANGULATION STATION "FALSE", ZONE III, LAMBERT COORDINATES ($X = 1,658,969.65$, $Y = 567,982.82$); THENCE S. $37^{\circ} 08'$ W. 1,745.11 FEET; THENCE N. $39^{\circ} 40\frac{1}{2}'$ W. 322.21 FEET TO A POINT ON THE ORDINARY HIGH WATER MARK OF THE SOUTHEASTERLY BANK OF THE SAN JOAQUIN RIVER, WHICH POINT IS THE TRUE POINT OF BEGINNING OF THE ABOVE-DESCRIBED CENTERLINE, THENCE CONTINUING N. $39^{\circ} 40\frac{1}{2}'$ W. 1,870.57 FEET TO A POINT ON THE ORDINARY HIGH WATER MARK OF THE NORTHWESTERLY BANK OF SAID SAN JOAQUIN RIVER, CONTAINING 17.176 ACRES MORE OR LESS.