32. CONTRACT FOR STUDY AT DONNER LAKE; EARTH SATELLITE CORPORATION; W 8670.

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

THE COMMISSION AUTHORIZES THE EXECUTIVE OFFICER TO EXECUTE A STANDARD AGREEMENT IN THE AMOUNT OF $5,300 WITH EARTH SATELLITE CORPORATION, FOR THE PREPARATION OF A DETAILED GEOLOGIC MAP OF DONNER LAKE.

Attachment:
Calendar Item 30 (1 page)

CALENDAR ITEM

10/75
DES
W 8670

30.

CONTRACT FOR STUDY AT DONNER LAKE

In May, 1975, the State Lands Commission approved preliminary maps of the boundary of State ownership in the bed of Donner Lake. Since that time, members of the public have expressed concern about tree stumps located below the water surface of the Lake and have asked staff of the State Lands Division for an explanation. An impartial expert opinion on the origin of the stumps will help to clarify the situation at Donner Lake.

Earth Satellite Corporation, of Berkeley, has submitted a proposal to perform the necessary work at a cost of $5,300. Staff has reviewed the proposal which involves the following work:

A. Prepare a detailed geologic map of the landslide area showing the lithology and attitude of rocks in the scar and the attitude of the same lithologies in the slide block and the morphology of the slide iteself as compared to the textbook standards. This map would be presented on an aerial photo base.

B. Document the stumps as to tree species, attitude of the growing axis and age of the tree at death, and comparisons with cores from the largest nearby living trees of the same species. A carbon 14 date for a narrow band of growth rings will be taken (carbon 14 dates for young samples are ± 75 years to the first standard deviation for very carefully taken samples). At the time of the lowest lake water level, also document the fact that this is the only area where stumps appear to have grown in place at present lake levels.

C. Available hydrologic records including stage-discharge relationships, water surface elevations, and precipitation records of Donner Lake Basin will be evaluated to reduce the possibility that the trees could have grown in place in recent times, or since California statehood.

EXHIBIT: A. Location Map.

IT IS RECOMMENDED THAT THE COMMISSION AUTHORIZE THE EXECUTIVE OFFICER TO EXECUTE A STANDARD AGREEMENT IN THE AMOUNT OF $5,300 WITH EARTH SATELLITE CORPORATION, FOR THE PREPARATION OF A DETAILED GEOLOGIC MAP OF DONNER LAKE.

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