

MINUTE ITEM NO. 33

APPROVED 1/21/76

CALENDAR ITEM

33.

1/76
GPP
W 979C

AUTHORIZATION TO EXECUTE A CONTRACT WITH LAWRENCE BERKELEY
LABORATORY FOR DEVELOPMENT OF GEOTHERMAL EXPLORATION EQUIPMENT
AND CONSULTING SERVICES AS PART OF A STATE LANDS DIVISION
STUDY OF ENERGY RESOURCES LOCATED ON STATE-OWNED LANDS

On July 24, 1975, the State Lands Commission authorized the Executive Officer to enter into an interagency agreement with the Energy Resources Conservation and Development Commission for the State Lands Division to conduct a geologic and engineering review of energy resources located on State-owned lands. The study will be funded under a Federal Energy Administration Grant.

As part of this study, the Division proposes to have designed, constructed and tested a geothermal gradient profiler and probe. In addition, the Division will need consultant services for interpretation of the geophysical data collected. The equipment will initially be tested and used for geothermal exploration on the State-owned submerged lands of Clear Lake and Honey Lake and areas within the Salton Sea.

Accordingly, the staff prepared Requests for Proposals and on September 16, 1975, the State Lands Commission authorized the solicitation of proposals for said services. Requests for Proposals were sent to the following:

1. Dr. L. A. Lawver, Marine Physical Laboratory, Scripps Institute of Oceanography, University of California, San Diego.
2. Professor John Isaacs, Scripps Institute of Oceanography, University of California, San Diego.
3. Dr. T. C. Lee, Department of Earth Sciences, University of California, Riverside.
4. Dr. T. L. Henyey, Department of Geological Sciences, University of Southern California, Los Angeles.
5. Dr. Paul A. Witherspoon, Lawrence Berkeley Laboratory, University of California, Berkeley.

Three proposals, submitted in response to solicitation by the staff, are listed below:

1. Lawrence Berkeley Laboratory, University of California, Berkeley.
2. John D. Isaacs, Director, Institute of Marine Resources, University of California, San Diego.

CALENDAR ITEM NO. 33. (CONTD)

3. Victor Vacquier, Professor Emeritus, Scripps Institute of Oceanography, University of California, San Diego.

Principal Investigator, Victor Vacquier of the University of California, San Diego, proposed a complex towed vehicle for sensing ocean salinity and temperature variations for \$60,207. Principal Investigator, John Isaacs of the University of California, San Diego, proposed a towed electro-magnetic device consisting of a linear array of five electrodes for \$30,103. Paul Witherspoon of Lawrence Berkeley Laboratory proposed a relatively simple temperature-sensing device for determination of thermal gradients in lake or ocean-floor sediment for \$50,000.

The staff has reviewed the proposals and found that the proposal submitted by Lawrence Berkeley Laboratory more closely conforms to the objectives contained in the Request for Proposals. The Lawrence Berkeley Proposal makes provision for building and testing the equipment in State-owned lakes while the other two proposals are suitable for testing and exploration in offshore areas only. Subsequent discussion and negotiations with Lawrence Berkeley Laboratory resulted in shortening the instrument design time, thereby lowering the total contract cost to \$40,000.

Once approved, the contract will go into effect immediately and terminate on May 31, 1976, for a cost not to exceed \$40,000.

IT IS RECOMMENDED THAT THE COMMISSION AUTHORIZE THE EXECUTIVE OFFICER TO EXECUTE THE CONTRACT WITH LAWRENCE BERKELEY LABORATORY FOR DEVELOPMENT OF GEOTHERMAL EXPLORATION EQUIPMENT AND CONSULTING SERVICES AS PART OF A STATE LANDS DIVISION STUDY OF ENERGY RESOURCES LOCATED ON STATE-OWNED LANDS TO COMMENCE IMMEDIATELY AND TERMINATE ON MAY 31, 1976, AT A COST NOT TO EXCEED \$40,000; SAID CONTRACT IS ON FILE WITH THE STATE LANDS COMMISSION AND BY REFERENCE MADE A PART HEREOF.