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No 30
Communications a year of 30
to 30 and 6/30/77 - INFORMATIVE CALENDAR ITEM
meeting.

6/77
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30.

MONITORING OF POSSIBLE GEOLOGIC HAZARDS,
LONG BEACH UNIT, WILMINGTON OIL FIELD
LOS ANGELES COUNTY

The City of Long Beach conducts surveys twice each year in February and August, for the purpose of monitoring changes in the ground elevation of the Long Beach tidelands and adjacent areas. Benchmarks that are within the Long Beach Harbor District are surveyed by the City's Harbor Department, and City benchmarks outside of the Harbor District are surveyed by the City's Engineering Department. The point of origin and some of the benchmarks are common to both surveys.

The Division staff reviews and interprets benchmark elevation data from these surveys. Ground elevation changes for the period of August, 1976 to February, 1977 show a contour anomaly of one-sixth of a foot at the intersection of the Harbor Department and City Engineering Department surveys. A year ago in February, 1976, some of the elevation data obtained was voided because of questionable accuracy.

Notwithstanding the non-conformance between the surveys, and even using the more pessimistic data, staff interpretation of the February 1977 survey data indicates that within the Long Beach Unit only minor changes in ground elevation have occurred during the past period of one year. The long term analysis of ground elevation surveys, since August, 1964, indicates that no subsidence of the land surface has occurred as a result of operations in the Long Beach Unit.

Additionally, a network of five seismic monitoring stations is being operated for the Long Beach Unit, under contract with the Geophysical Laboratory of the University of Southern California. No seismic event originated within the Long Beach Unit area during the past year.

The Division will continue to report the results of future ground elevation surveys and will advise the Commission of any significant change of seismic activity in the vicinity of the Long Beach Unit.

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