

ADVISORY COMMITTEE ON REACTOR SAFEGUARDS
UNITED STATES ATOMIC ENERGY COMMISSION
WASHINGTON, D.C. 20545

January 25, 1965

Honorable Glenn T. Seaborg
Chairman
U. S. Atomic Energy Commission
Washington, D. C.

Subject: REPORT ON CITY OF LOS ANGELES -- MALIBU NUCLEAR PLANT -
UNIT NO. 1

Dear Dr. Seaborg:

At its sixtieth meeting, on December 10-12, 1964, the Advisory Committee on Reactor Safeguards again reviewed the proposal of the City of Los Angeles to construct a 1473 MW(t) pressurized water reactor, Malibu Nuclear Plant - Unit No. 1, at Corral Canyon, twenty-nine miles west of Los Angeles. The Committee had the benefit of discussions with representatives and consultants of the Department of Water and Power of the City of Los Angeles, Westinghouse Electric Corporation, Stone & Webster Engineering Corporation, and the AEC Regulatory Staff and its consultants. The Committee also had available references 1 through 5 listed below. In addition, the applicant and his contractors orally provided design information related to the simultaneous effects on the containment vessel of pressurization and both horizontal and vertical components of the postulated maximum earthquake which was subsequently documented in Amendment 8.

In its report of July 15, 1964, the Committee identified several areas of concern which it believed could be resolved during the construction phase. The applicant has since submitted Amendments 5, 6, 7 and 8. These amendments document earlier presentations to the Committee and the AEC Staff. Final reports of the U. S. Geological Survey and the U. S. Coast and Geodetic Survey documenting the earthquake and tsunami criteria for the Malibu site have also been issued; these reports confirm the information and conclusions given to the Committee earlier concerning this site.

Amendments 5, 6, and 7 submitted by the Applicant provided additional information related to items that the Committee identified in its July 15th report. The proposed reactor facility has been relocated on the site. Protection will be provided against landslides, floods, and tsunamis. The capacity of the on-site emergency diesel generator has been increased to accommodate simultaneous use of both air recirculation and containment-spray systems. The reactor designer has also described a system which is intended to prevent an accident caused by injection of non-borated water.

Since the Committee's July 15th report, some of the more important structural design features of the containment have been developed in further detail. In particular, the design now incorporates conservative factors for: imbedment of reinforcement bars; diagonal strengthening bars; anchoring of the exposed inner membrane; and strengthening at the access hatch penetration. The Committee is of the opinion that the measures being taken by the applicant and listed in Amendment 8 constitute an adequate approach for implementing the desires expressed in the Committee's July 15th report.

With the understanding that items identified in its July 15th report will continue to be considered during construction, the Advisory Committee on Reactor Safeguards reiterates its belief that the proposed Malibu Nuclear Plant can be constructed with reasonable assurance that it can be operated at the site without undue risk to the health and safety of the public.

Sincerely yours,

/s/

W. D. Manly
Chairman

References Attached.

References - Malibu

1. Fifth Amendment to Application for Construction Permit and Facility License for Malibu Nuclear Plant - Unit No. 1, dated July 6, 1964.
2. Sixth Amendment to Application for Construction Permit and Facility License for Malibu Nuclear Plant - Unit No. 1, dated August 21, 1964.
3. Seventh Amendment to Application for Construction Permit and Facility License for Malibu Nuclear Plant - Unit No. 1, dated November 13, 1964.
4. U. S. Coast & Geodetic Survey Report entitled "Report on the Seismicity of the Malibu, California Area", dated November 24, 1964.
5. U. S. Geological Survey Report entitled "Engineering Geology Summary of the Proposed Nuclear Power Plant Site, Corral Canyon, Los Angeles County, California", dated December 1964.
6. U. S. Geological Survey Report entitled "Geologic Report on the Proposed Corral Canyon Nuclear Power Plant Site, Los Angeles County, California", dated December 1964.
7. Eighth Amendment to Application for Construction Permit and Facility License for Malibu Nuclear Plant - Unit No. 1, dated January 8, 1965.