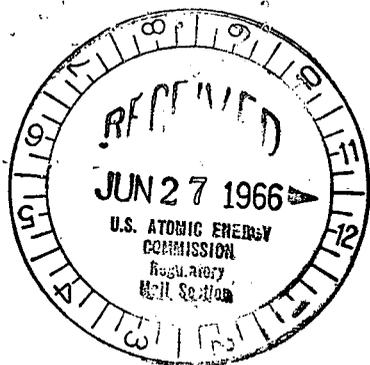


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REPORT ON THE SEISMICITY OF THE
INDIAN POINT, NEW YORK AREA

In response to the request of the Division of Reactor Licensing of the Atomic Energy Commission, the Seismology Division of the Coast and Geodetic Survey has reviewed the seismicity of Indian Point, New York as submitted by Consolidated Edison Company of New York to the AEC on December 7, 1965.

The history of seismic events in the Indian Point area as prepared by Reverend J. J. Lynch, S.J., for data up to 1955 and by Dr. James Dorman for data up to 1963 are in complete agreement with our knowledge of the area seismicity during historic time. A check was also made of our files from 1963 through May 1966 and no additional earthquake reports were found. The intensities of these earthquakes do not exceed 6 on the Modified Mercalli Scale, indicating that the strongest have caused but very slight damage. Moreover, the highest intensity earthquakes that have occurred in the St. Lawrence Valley and coastal New England areas have never been damaging around Indian Point. In evaluating this historic information about the intensity of the earthquakes and

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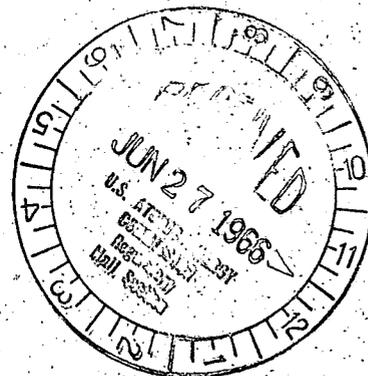
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realizing that the proposed structure would be constructed on rock formation, the Survey is in agreement with the applicant's statement that 0.1 g is adequate for the design of the reactor plant and containment. This 0.1 g is considered adequate even though there is evidence of much tectonic movement during geologic time. However, recent tectonic history indicates only minor activity which is in general characteristic of the Appalachian Mountain Chain.

In summary, the Survey believes that within the lifetime of the facilities located on rock at Indian Point, an acceleration of 0.1 g in the period range of 0.3 to 0.6 without the loss of function of components important to safety should be taken into account.

U.S. Coast and Geodetic Survey
Washington, D. C.

June 23, 1966



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