

REPORT ON THE SITE SEISMICITY FOR
THE CRYSTAL RIVER NUCLEAR PLANT, FLORIDA

At the request of the Division of Reactor Licensing of the Atomic Energy Commission, the Seismology Division of the Coast and Geodetic Survey has evaluated the seismicity of the area around the proposed reactor site near Crystal River, Citrus County, Florida, and has reviewed a similar analysis made by the applicant and presented in the "Preliminary Safety Analysis Report." The applicant's report on the site seismicity is adequate for an evaluation of the seismic factor.

In reviewing the seismicity, the dominant factor considered was the Charleston, South Carolina, earthquake of 1886. The response of the area around the proposed reactor site to this earthquake has been evaluated at intensity VI. No other seismic activity has generated a higher intensity.

Based upon the review of the site seismicity, geology and ground conditions, the Coast and Geodetic Survey recommends that an acceleration of 0.05 g would be adequate for representing earthquake disturbances likely to occur within the lifetime of the facility. In addition, the Survey recommends an acceleration of 0.10 g to represent the ground motion from the maximum earthquake likely to affect this site. It is believed that this value would provide an adequate basis for designing protection against the loss of function of components important to safety.

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