

H. L. Price, Director
Division of Licensing & Regulation

April 23, 1959

C. Rogers McCullough, Chairman
Advisory Committee on Reactor Safeguards

SUGGESTED REGULATION FOR REVIEW OF REACTOR SITES

The following suggested regulation was considered briefly by the ACRS at its last meeting. There was an insufficient time to discuss the matter with Dr. Beck and his staff and the Committee has taken no official position on the matter. We would like you to consider this matter and discuss it with us at our next meeting.

For any reactor requiring a license, the first step will be the request for a review by the Atomic Energy Commission of a site selected by the applicant. In requesting the review and the tentative approval by the Commission, the applicant will present all of the pertinent information characteristic of the site including the distribution of population in the surroundings, (1) meteorology, hydrology, geology, and seismology. This data should be sufficiently complete to enable the Commission to come to a tentative conclusion as to the suitability of the site for the reactor proposed with regard to the adequate protection of the

(1) The population distribution about the reactor should be given, to an accuracy of about plus or minus 10 per cent, as the number of people occupying the sectors of annuli defined by the northeast, southeast, southwest, northwest quadrants and successive radii at distances of $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$, 1, $1\frac{1}{2}$, 2, 3, 4, 5, 10, 15, 20, 25, 30, 40, and at ten-mile intervals. In no case are population distributions necessary for distances greater than those giving a dose to a person continuously residing at the spot greater than one-half rem to the whole body or equivalent for an assumed 0.3 per cent release, under average nighttime meteorology, of the total fission products in the core. If there are any special features of population distribution or of the other features of the site these should be mentioned.

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