



STANFORD UNIVERSITY MEDICAL CENTER

STANFORD, CALIFORNIA 94305 • (415) 321-1200

STANFORD UNIVERSITY SCHOOL OF MEDICINE  
Department of Genetics

January 12, 1971

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In the matter of

Toledo Edison Company in Cleveland  
Electric Illuminating Company

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Re.: Davis-Besse Nuclear Power Plant

Attached hereto are signed copies of (1) my professional qualifications and academic biography, and (2) a statement on the cost-benefit analysis of radiation exposure from the standpoint of genetic mutation and health. In my opinion, the process by which radiation standards have been promulgated to date is defective for lack of a clear statement as to the level of public health hazard that can reasonably be expected as a consequence of a level of radiation advocated as "permissible". It may well be that reasonable men might conclude that the cost of such a level of exposure is more than counterbalanced by the benefits of useful applications of nuclear energy. However, this decision on a matter of public policy should be made on premises about anticipated costs that have been clearly exposed, rather than embedded in more technical inferences about the biological effects of radiation exposure.

The above statement, with referenced attachments represents my best knowledge and true belief on the question of radiation standards.

Joshua Lederberg  
Professor of Genetics  
Chairman, Department of  
Genetics