

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

APR 17 1968

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Honorable Glenn T. Seaborg
Chairman
U. S. Atomic Energy Commission
Washington, D. C. 20545

Subject: REPORT ON THREE MILE ISLAND NUCLEAR STATION UNIT 1

Dear Dr. Seaborg:

At its ninety-sixth meeting, on April 4-6, 1968, the Advisory Committee on Reactor Safeguards completed its re-examination of the application by Metropolitan Edison Company to construct the Three Mile Island Nuclear Station Unit 1. The Three Mile Island Nuclear Station Unit 1 was the subject of a report to you dated January 17, 1968. The review was re-opened at the ninety-fifth ACRS meeting, on March 7-9, 1968, in consideration of an additional submittal by the applicant evaluating further the effects of the proximity of the Olmsted State Airport. The Committee has had the benefit of discussions with representatives of Metropolitan Edison Company, Babcock and Wilcox Company, Gilbert Associates, and the AEC Regulatory Staff and their consultants. The additional documents submitted are listed in this report.

Although the probability of an airplane hitting the station is very small, the applicant has undertaken to provide principal structures and components of the station with the capability of withstanding aircraft strike loadings over a range of conditions, including effects such as secondary missiles, fire, and pressure and temperature effects. The reactor building, control building, fuel handling building, auxiliary building, and intermediate building will have the necessary modifications to assure the capability of bringing the plant to a safe shutdown condition.

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Honorable Glenn T. Seaborg - 2 -

April 6, 1968

The Committee reaffirms its previous conclusion that, if suitable attention is given to the various items mentioned in the Committee's report of January 17, 1963, the proposed reactor can be constructed at the Three Mile Island site with reasonable assurance that it can be operated without undue risk to the health and safety of the public. .

Sincerely yours,

Original Signed by
C. W. Zabel

Carroll W. Zabel
Chairman

References:

1. Amendment No. 8 to Application; Metropolitan Edison Company letter dated February 23, 1963.
2. Amendment No. 9 to Application; Metropolitan Edison Company letter dated March 6, 1963.
3. Amendment No. 10 to Application; Metropolitan Edison Company letter dated March 23, 1963.

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Appendix B

Chronology of Regulatory Staff's
Review of the Three Mile Island
Nuclear Station, Unit 1, continued

(Items 1 to 19 are listed in Appendix B to our Safety Evaluation, dated
February 5, 1968.)

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| 20. February 8, 1968 | Meeting with applicant on airport proximity |
| 21. February 26, 1968 | Submittal of Amendment No. 8, airport proximity |
| 22. February 29, 1968 | Meeting with applicant on airport proximity. |
| 23. March 6, 1968 | Submittal of Amendment No. 9, airport proximity |
| 24. March 7, 1968 | Meeting with applicant on airport proximity |
| 25. March 7, 1968 | ACRS meeting with staff and applicant to discuss airport proximity |
| 26. March 20, 1968 | Meeting with applicant on airport proximity |
| 27. March 26, 1968 | Submittal of Amendment No. 10, airport proximity |
| 28. April 2, 1968 | Meeting with applicant on airport proximity |
| 29. April 5, 1968 | ACRS meeting with staff and applicant to discuss airport proximity |
| 30. April 6, 1968 | ACRS Report on Three Mile Island Nuclear Station Unit 1. |

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