

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

December 15, 1962

Honorable Glenn T. Seaborg  
Chairman  
U. S. Atomic Energy Commission  
Washington 25, D. C.

Subject: REPORT ON LA CROSSE BOILING-WATER REACTOR (LACBWR)

Dear Dr. Seaborg:

At its forty-fifth meeting on December 13-15, 1962 at Oak Ridge, Tennessee, the Advisory Committee on Reactor Safeguards reviewed the proposed construction of the 165 MW (t) La Crosse Boiling-Water Reactor (LACBWR) to be located near Genoa, Wisconsin. The Committee had the benefit of the referenced report, and discussions with representatives of the Allis-Chalmers Company, the Dairyland Power Co-operative, and the AEC staff.

The applicant proposes to construct a direct cycle, forced circulation, boiling water reactor with internal steam separation. The site area was previously considered by the ACRS at its thirty-fourth meeting on May 18-20, 1961, and reported to be suitable for a reactor of this general type and power level.

Many features of the reactor design have not been determined at this time. The applicant has proposed an extensive research and development program to provide information for the final design. Among the topics to be explored in this program and in the final design are: (1) Performance and mode of operation of the bottom entry control rod drives and poison elements; (2) specific operating limits for the fuel elements; (3) use of low-alloy steel in portions of the primary system; (4) feasibility of obtaining satisfactory load control by automatic regulation of the primary coolant flow; and (5) the required engineered safeguards for containment. The Committee desires to be kept informed of the progress of this research and development program as it relates to the final design.

Honorable Glenn T. Seaborg

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With satisfactory completion of the above program, the Advisory Committee on Reactor Safeguards believes that a boiling water reactor of the proposed general type and power level can be constructed at this site with reasonable assurance that it can be operated without undue hazard to the health and safety of the public.

Sincerely yours,

/s/

F. A. Gifford, Jr.  
Chairman

Reference:

1. ACNP-62574 - Hazards Summary Report for Construction Authorization of the La Crosse Boiling-Water Reactor, dated October 1962.