UNITED STATES
ATOMIC ENERGY COMMISSION
WASHINGTON, D.C. 20545

APR 2 1974

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APPLICANT: Mississippi Power and Light Company

FACILITY: Grand Gulf Nuclear Station, Units 1 & 2

SUMMARY OF ACRS MEETING HELD ON MARCH 7, 1974

The ACRS reviewed the Grand Gulf application (second meeting) at its meeting on March 7, 1974. The Committee considered the following four subjects at its March meeting. A transcript of the proceedings is available.

1. Guard Pipe Design

The Committee members asked a number of questions regarding the proposed guard pipe design which was described by the applicant. No conclusions were reached. The Committee Chairman indicated that the Grand Gulf Subcommittee should consider the proposed design at its next meeting and that the Full Committee would wish to review this matter further. The staff stated that it would reopen its review of the guard pipe matter.

2. Combustible Gas Control

The Committee members asked a number of questions in regard to control of combustible gas in the containment. Subjects discussed included effects of hydrogen explosion on components in the drywell, rates of hydrogen buildup for radiolysis, effects of water overflow from the suppression pool into the drywell (assuming no vacuum breakers) and a listing of safety related equipment in the drywell which could possibly be affected by either hydrogen combustion or flooding.

3. ECCS

General Electric Company representatives presented probability estimates of exceeding various peak clad temperatures, based on progressive failures of the ECCS beyond that specified in the IAC. The Committee inquired about the effect of the new GETAB correlation on calculated peak clad temperatures. Also, the applicant and staff were asked to explain the factors which resulted in the lower peak clad temperatures calculated for the BWR/6 design; in particular, the relative effects of core design and ECCS design. At the next Subcommittee meeting, questions will be asked in regard to drying and film boiling near the top of the core.

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4. Industrial Security

The Committee asked a number of questions in regard to the potential for sabotage; in particular, the possibility of sabotage involving the guard pipes and possible consequences. Discussion on this subject will be continued at a future meeting. The applicant and staff were requested to consider various design alternatives which would improve protection against sabotage.

The Chairman indicated that all the subjects which had been brought up at this meeting would be considered at a future meeting of the Committee.

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