Peter A. Morris, Director, Division of Reactor Licensing Original signed by THRU: Roger S. Boyd, Assistant Director for Boiling Water Reactors, address of the Control of Reactor Licensing Original signed by THRU: Roger S. Boyd, Assistant Director for Boiling Water Reactors, address of the Control of Reactor Licensing Original signed by THRU:

ACRS SUBCOMMITTEE MEETING ON THE DAVIS-BESSE PROJECT - PRIMARY AND SECONDARY SYSTEM FAILURE - DOCKET NO. 50-346

At the Subcommittee meeting held on August 4, 1970, Bechtel (the A&E) indicated that failure of the secondary system was considered in its evaluation of the containment design following a LOCA. The acceptance criterion indicated by Bechtel was that the resulting pressure should not exceed the containment design pressure. Bechtel indicated that it would be acceptable to them if the resulting pressure even exceeded by some small margin the proposed design pressure.

I noted that up to now we had not been requested to review applications on the basis of a combined failure of the primary and secondary system. All applications contained the design basis considering a rupture of the primary system only.

During our review of the Davis-Besze project, we noted that the applicant did not include design provisions to preclude failure of the secondary system due to a primary system rupture, and in our ACRS report we stated our position that suitable design provision be made to preclude this event. Such provisions would include either a redesign of the containment or installation of suitable restraints on the primary piping to prevent failure of the secondary system.

Bechtel indicated that they only considered possible pressure incremental changes due to addition of energy from the secondary system. The consequences of direct fission product leakage, interaction with ECCS, possible effects of boron dilution due to mixing of the secondary system coolant with the primary system coolant were not evaluated.

Because of the questions raised during the meeting, Dr. Siess (Sub-committee chairman) stated that further discussions would be held at the full Committee meeting next week. In particular, he stated that the staff should be prepared to discuss how these matters have been treated on other plants. His concern is that perhaps we have not considered the effects of failure of the secondary system on plants that did not have suitable protection. It certainly appears that a

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meeting should be held with DRS to discuss this matter as well as possible action regarding past reviews so that we can discuss the matter with the full Committee at the August meeting. I believe that it would be appropriate for DRL and DRS to review the history of past plants as well as the philosophy and policy on sizing of containments.

Original signed by Robert L. Tedesco

R. L. Tedesco, Chief BWR Branch No. 2, DRL

cc: E. G. Case

F. Schroeder

R. DeYoung

R. R. Maccary

M. Rosen

Branch Chiefs, DRL Branch Chiefs, DRS

B. Grimes

H. Specter

R. R. Powell

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