

*memo*

June 5, 1970

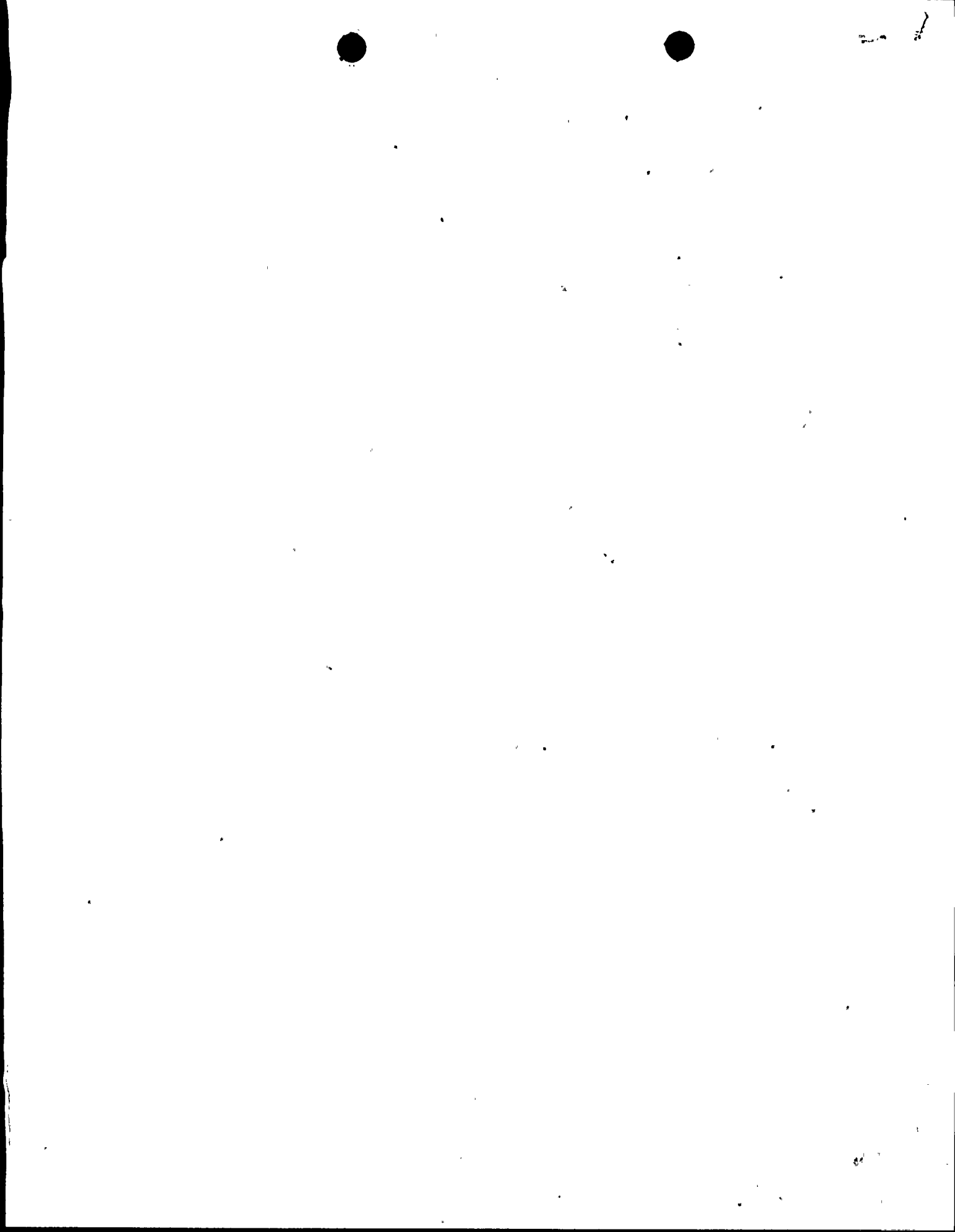
Roger S. Boyd, Assistant Director for Boiling Water Reactors, DRL  
BWR SACRIFICIAL SHIELD/CAVITY DESIGN

On June 4, 1970, Ray Fraley of the ACRS informed Dr. Morris of the Committee's concern on breaks that could occur in BWR sacrificial shield/cavity arrangements on the Dresden 2, Millstone Point, Monticello and Nine Mile Point plants. The applicants for these plants are scheduled to appear at the June ACRS meeting for discussion and action on the furnace-sensitized stainless steel safe ends.

In order to obtain some insight into the problem, I called Iven Stuart of the General Electric Company to request the following type of information:

1. What is the largest size break (circumferential or axial) that can be accommodated in the cavity so that there will be: (a) no loss of the ECCS capability; (b) no missiles generated from either the shield structure or shield plug that could affect other systems and/or the containment; and (c) assurance that the pressure vessel support system would not be violated.
2. For a typical design, provide the following:
  - (a) A sketch showing the cross section of the shield;
  - (b) Typical distances between the vessel and the shield;
  - (c) Vent Area;
  - (d) Design pressures;
  - (e) Show the relative positions of the vessel, safe end, and piping;
  - (f) Define the pipe/safe end/pressure vessel boundaries and the bases.

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Roger S. Boyd

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Following discussions with D. Skovholt, R. Vollmer, D. Muller, and D. Vassallo, each applicant will be informed of the action being taken on the foregoing.

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

cc: P. A. Morris  
E. G. Case  
F. Schroeder  
D. Skovholt  
R. DeYoung  
D. Muller  
BWR Branch Chiefs  
B. Grimes  
R. Vollmer  
D. Vassallo  
V. Stello  
G. Lainas

bcc: Docket Files (4)  
DRL Files  
BWR-2 Files  
BWR-2 Staff

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DATE >	6/5/70				

