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 FACIL: 50-438 Bellefonte Nuclear Plant, Unit 1, Tennessee Valley Au 05000438
 50-439 Bellefonte Nuclear Plant, Unit 2, Tennessee Valley Au 05000439
 AUTH. NAME AUTHOR AFFILIATION
 KAMMER, D.S. Tennessee Valley Authority
 RECIP. NAME RECIPIENT AFFILIATION
 ADENSAM, E. Licensing Branch 4

SUBJECT: Forwards "Verification of Hydraulic Performance of Containment Sumps." Rept describes test results performed on hydraulic model of reactor bldg sumps.

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TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401
400 Chestnut Street Tower II

August 10, 1982

Director of Nuclear Reactor Regulation
Attention: Ms. E. Adensam, Chief
Licensing Branch No. 4
Division of Licensing
U.S. Nuclear Regulatory Commission
Washington, DC 20555

Dear Ms. Adensam:

In the Matter of the Application of) Docket Nos. 50-438
Tennessee Valley Authority) 50-439

By letter from L. M. Mills to H. R. Denton dated February 1, 1982, TVA informed you that a scale model of the Bellefonte Nuclear Plant (BLNP) reactor building emergency sumps would be tested by Alden Research Laboratory in Holden, Massachusetts. The objective of the tests was to determine the adequacy of TVA's design through the use of a scale model that evaluates the formation of vortexing inside and outside of the sump, pressure drops across the inlet trash racks and screens, the water velocity through the intake, and the net positive suction head (NPSH) to the ECCS pumps. Enclosed for your information and review are 15 copies of the report "Verification of Hydraulic Performance of Containment Sumps - Bellefonte Nuclear Plant," prepared by Alden Research Laboratory. This report shows the results of the tests performed on a hydraulic model of the reactor building sumps for Bellefonte Nuclear Plant.

If you have any questions concerning this matter, please get in touch with D. L. Terrill at FTS 858-2680.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

D S Kammer

D. S. Kammer
Nuclear Engineer

Sworn to and subscribed before me
this 10th day of August 1982

Paulette H. White
Notary Public

My Commission Expires 9-5-84

Enclosure (15)
cc: See page 2

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PDR ADOCK 05000438
PDR
A

Director of Nuclear Reactor Regulation

August 10, 1982

cc: U.S. Nuclear Regulatory Commission (Enclosure)
Region II
Attn: Mr. James P. O'Reilly, Regional Administrator
101 Marietta Street, Suite 3100
Atlanta, Georgia 30303