

JUN 03 1985

DMB-016

Docket No. 50-346

DISTRIBUTION

~~Docket File~~

Mr. Richard P. Crouse
Vice President, Nuclear
Toledo Edison Company
Edison Plaza - Stop 712
300 Madison Avenue
Toledo, Ohio 43652

L PDR
NRC PDR
ORB#4 Rdg
HThompson
OELD
EJordan
BGrimes

JPartlow
ACRS-10
RIngram
ADeAgazio
Gray File
EBrach
HOrnstein

Dear Mr. Crouse:

SUBJECT: SUBCOOLING MARGIN IN TECHNICAL SPECIFICATION

As part of the staff's review of Multiplant Action (MPA) number B-57, dealing with technical specifications for decay heat removal, we identified a possible nonconservatism in the standard technical specifications regarding the required subcooling margin that must be established when reactor coolant pumps are to be secured in modes 3, 4 and 5. The required subcooling margin is stated to be 10°F. However, when instrument uncertainties and elevation head effects are taken into account, this subcooling margin may not be sufficient to prevent flashing in the higher elevation of the hot legs and steam accumulation at the top of the hot leg U-bends with consequent interruption of natural circulation, the very condition the subcooling margin was designed to prevent.

You are therefore requested to evaluate the adequacy of the subcooling margin specified in Technical Specification 3.4.1.2 that must be established for natural circulation conditions, and ensure that a sufficient margin exists such that void formation is precluded when instrument error and elevation effects are accounted for. If you conclude that the margin specified is inadequate, you should propose a revised subcooling margin which will ensure that void formation does not occur when decay heat removal is through natural circulation only. Please confirm the adequacy of the specified subcooling margin or submit a proposed revision to your technical specifications no later than July 15, 1985.

Sincerely,

*ORIGINAL SIGNED BY
JOHN F. STOLZ*

John F. Stolz, Chief
Operating Reactors Branch #4
Division of Licensing

cc: See next page

ORB#4:DL *ADeAgazio*
ADeAgazio;cr
6/3/85

ORB#4:DL *JStolz*
JStolz
6/3/85

8506180553 850603
PDR ADDCK 05000346
P PDR

Mr. R. P. Crouse
Toledo Edison Company

Davis-Besse Nuclear Power Station, Unit No. 1

cc:

Donald H. Hauser, Esq.
The Cleveland Electric
Illuminating Company
P. O. Box 5000
Cleveland, Ohio 44101

Ohio Department of Health
ATTN: Radiological Health
Program Director
P. O. Box 118
Columbus, Ohio 43216

Mr. Robert F. Peters
Manager, Nuclear Licensing
Toledo Edison Company
Edison Plaza
300 Madison Avenue
Toledo, Ohio 43652

Attorney General
Department of Attorney
General
30 East Broad Street
Columbus, Ohio 43215

Gerald Charnoff, Esq.
Shaw, Pittman, Potts
and Trowbridge
1800 M Street, N.W.
Washington, D.C. 20036

Mr. James W. Harris, Director (Addressee Only)
Division of Power Generation
Ohio Department of Industrial Relations
2323 West 5th Avenue
P. O. Box 825
Columbus, Ohio 43216

Paul M. Smart, Esq.
Fuller & Henry
300 Madison Avenue
P. O. Box 2088
Toledo, Ohio 43603

Mr. Harold Kahn, Staff Scientist
Power Siting Commission
361 East Broad Street
Columbus, Ohio 43216

Mr. Robert B. Borsum
Babcock & Wilcox
Nuclear Power Generation
Division
Suite 200, 7910 Woodmont Avenue
Bethesda, Maryland 20814

President, Board of
County Commissioners of
Ottawa County
Port Clinton, Ohio 43452

U.S. Nuclear Regulatory Commission
Resident Inspector's Office
5503 N. State Route 2
Oak Harbor, Ohio 43449

Mr. James G. Keppler, Regional Administrator
U.S. Nuclear Regulatory Commission, Region III
799 Roosevelt Road
Glen Ellyn, Illinois 60137