

6-20-77

Docket Nos. 50-329  
50-330

Consumers Power Company  
ATTN: Mr. S. H. Howell  
Vice President  
212 West Michigan Avenue  
Jackson, Michigan 49201

Gentlemen:

**SUBJECT: CRITERIA FOR POSTULATED PRIMARY SYSTEM PIPE BREAK**

This letter is in response to your letter dated May 10, 1977, requesting review and acceptance of proposed criteria for postulating primary system pipe breaks for Midland Plant, Units 1 and 2. You propose to use these criteria instead of the criteria set forth in Regulatory Guide 1.46, "Protection Against Pipe-Whip Inside Containment," for the primary system piping.

Our staff has reviewed the proposed criteria and find they are in general consistent with staff technical positions as reflected in the current proposed revision to Section 3.6.2, Determination of Break Locations and Dynamic Effects Associated with the Postulated Rupture of Piping of the Nuclear Regulatory Commission's Standard Review Plan, NUREG 75/087. However, for completeness and clarification, paragraph 2.2 of your proposed criteria should be augmented by incorporating the following additional guidelines:

If a circumferential break is postulated at a nonaxisymmetric fitting (such as a tee or elbow), without the benefit of a detailed stress analysis, longitudinal breaks should also be postulated to occur

- (a) out of the plane of an elbow oriented non-concurrently at two diametrically-opposed points on the circumference in the middle of the elbow, and
- (b) out of the plane of a tee oriented non-concurrently at diametrically opposed points in the middle of the tee run section.

8006200 705

A

THIS DOCUMENT CONTAINS  
POOR QUALITY PAGES

MAY

GD

OFFICE					
SURNAME					
DATE					

Your proposed Criteria for Postulating Primary System Pipe Breaks for Midland Plant, Units 1 and 2, with the augmentation indicated above are acceptable.

If you require any additional information regarding this matter, please contact us.

Sincerely,

Steven A. Varga, Chief  
 Light Water Reactors Branch 4  
 Division of Project Management

ccs:  
 Listed on following page

DISTRIBUTION:

- Docket file
- NRC PDR
- Local PDR
- LWR-4 Reading
- RSBoyd
- RCDeYoung
- DBVassallo
- FJWilliams
- SAVarga
- RPowell
- MService
- RHeineman
- DRoss
- JKnight
- RTedesco
- HDenton
- VAMoore
- RHVollmer
- MLErnst
- WPGammill
- ACRS (16)
- ELD
- IE (3)

bcc: JRBuchanan  
 TBAbernathy

OFFICE →	LWR-4	LWR-4			
SURNAME →	RPowell:nlg	SAVarga	R BOSNAK		
DATE →	6/16/77	6/17/77	6/17/77		

Consumers Power Company

- 3 -

CCS:

R. Rex Renfrow III, Esq.  
Isham, Lincoln & Beale  
1050 17th Street, N. W.  
Washington, D. C. 20036

Judd L. Bacon, Esq.  
Consumers Power Company  
212 West Michigan Avenue  
Jackson, Michigan 49201

Howard J. Vogel, Esq.  
Knittle & Vogel  
814 Flour Exchange Building  
Minneapolis, Minnesota 55415

Myron M. Cherry, Esq.  
One IBM Plaza  
Chicago, Illinois 60611

Honorable Curt Schneider  
Attorney General  
State of Kansas  
Topeka, Kansas 66612

Irving Like, Esq.  
Reilly, Like and Schneider  
200 West Main Street  
Babylon, New York 11702

James A. Kendell, Esq.  
Currie and Kendall  
135 North Saginaw Road  
Midland, Michigan 48640

Milton R. Wessel, Esq.  
4 Little Lane  
White Plains, New York 10605

Lee Nute, Esq.  
Michigan Division  
The Dow Chemical Company  
47 Building  
Midland, Michigan 48640