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Docket No. 50-302

JAN 18 1973

Florida Power Corporation  
ATTN: Mr. J. T. Rodgers  
Assistant Vice President and  
Nuclear Project Manager  
P. O. Box 14042  
St. Petersburg, Florida 33733

Gentlemen:

The enclosed Errata Sheet for "General Information Required for Consideration of the Effects of a Piping System Break Outside Containment" amends our letter to you of December 15, 1972. This letter concerned the potential effects of steamline breaks in the Crystal River Unit 3.

Please contact us if you desire discussion or clarification of this material.

Sincerely,

Original Signed by  
Albert Schwencer  
A. Schwencer, Chief  
Pressurized Water Reactors Branch No. 4  
Directorate of Licensing

Enclosure:  
Errata Sheet

cc: S. A. Brandimore, Esquire  
Vice President and General  
Counsel  
P. O. Box 14042  
St. Petersburg, Florida 33733

POOR ORIGINAL

OFFICE ▶	L: PWR-4	L: PWR-4				
SURNAME ▶	HJFaulkner; emp	ASchwencer				
DATE ▶	1/17/73	1/17/73				

ERRATA SHEET FOR "GENERAL INFORMATION REQUIRED FOR CONSIDERATION OF THE  
EFFECTS OF A PIPING SYSTEM BREAK OUTSIDE CONTAINMENT"

The following lists the changes that have evolved on our initial information request:

1. Page 2, Item 2--Insert the following in 2. to precede the existing first sentence:

"Design basis break locations should be selected in accordance with the following pipe whip protection criteria; however, where pipes carrying high energy fluid are routed in the vicinity of structures and systems necessary for safe shutdown of the nuclear plant, supplemental protection of those structures and systems shall be provided to cope with the environmental effects (including the effects of jet impingement) of a single postulated open crack at the most adverse location(s) with regard to those essential structures and systems, the length of the crack being chosen not to exceed the critical crack size. The critical crack size is taken to be 1/2 the pipe diameter in length and 1/2 the wall thickness in width."

2. Page 2, Item 2(a)(2)--Change nomenclature to read "any intermediate locations between terminal ends where the primary plus secondary stress intensities  $S_n$  ..."
3. Page 4, Item 2.(b)(2)--Change  $0.9 (S_h + S_A)$  to  $0.8 (S_h + S_A)$ .
4. Page 6, Item 7 --Add "structural" to read "The structural design loads..."
5. Page 7, Item 11.(a)--Add "required" so as to read, "Loss of required redundancy..."
6. Page 7, Item 11.(a)--Delete "the steam line break" and replace with "that" to read "...the consequences of that accident..."
7. Page 8, Item 11.(b)-- Replace (b) with the following: (b) "Environmentally induced failures caused by a leak or rupture of the pipe which would not of itself result in protective action but does disable protection functions. In this regard, a loss of redundancy is permitted but a loss of function is not permitted. For such situations plant shutdown is required."