

JUL 19 1973

Docket Nos. 50-269
50-270 ←
and 50-287

Duke Power Company
ATTN: Mr. A. C. Thies
Senior Vice President
Production and Transmission
422 South Church Street
P. O. Box 2178
Charlotte, North Carolina 28201

Gentlemen:

Two incidents have occurred at two different nuclear power plants that indicate a deficiency in the design of refueling water storage systems that warrants a review of the monitoring and control systems to prevent overflow of these tanks and uncontrolled release of radioactive liquid to the environs. Both incidents involved the inadvertent overflow of the refueling water storage tanks into uncontrolled water pathways. In one case, failure of the water level indicator in the control room during a filling operation resulted in liquid overflow from the refueling water storage tank to the facade drain trough which drained to the facade sump and discharged to the sewage treatment plant and to the sewage retention pond. In the second case, operator error resulted in liquid overflow from the refueling water storage tank to the plant drainage system to the storm drainage system and subsequently to Black Creek. A copy of the licensees' reports on these two occurrences is enclosed for your information.

As a result of these occurrences, we request that you perform a review of the refueling water storage tank system design, and other liquid tanks which contain radioactivity, that overflow to other than a controlled water pathway to the environs. All modes of operation and failure must be considered. In the cases cited above, alarms for high level overflow or excessive leakage had not been included for the tanks and control of such overflow or leakage had not been adequately considered in the design of these systems.

Also, your procedures should be reviewed to ensure that they provide for operator surveillance and proper action concerning the liquid storage tanks which contain radioactivity, particularly when fluid is being transferred into the tanks.

for

The results of your review and estimates of the schedule for design, fabrication, and installation of any modifications found to be necessary are requested within sixty days. This information should be provided with one signed original and thirty-nine additional copies.

Sincerely,

Original Signed by

D. Vassallo
for

R. C. DeYoung, Assistant Director
for Pressurized Water Reactors
Directorate of Licensing

Enclosures:

1. Ltr fm Wisconsin Electric
dated 8/11/71
2. Ltr fm Carolina Power &
Light dated 5/1/73

cc: William L. Porter, Esquire
Duke Power Company
422 South Church Street
Charlotte, North Carolina 28201

DISTRIBUTION:

Docket
AEC PDR
Local PDR
PWR-4 Reading
RCDeYoung
RKlecker
JHendrie
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RO (3)
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ACRS (16)
EIGoulbourne (2)
Project Manager

IDENTICAL LETTERS SENT TO THOSE ON ATTACHED LIST:

CRESS OFFICE	L: PWR-4	L: PWR-4	L: PWR-4	L: AD: PWRs		
Tape 1073-07						
SURNAME	EIGoulbourne:jk		ASchwencer	RCDeYoung		
DATE	7/18/73	7/1/73	7/19/73	7/19/73		

ADDRESSEE LIST

Docket No. 50-269/270/287
Duke Power Company
ATTN: Mr. A. C. Thies
Senior Vice President
Production and Transmission
422 South Church Street
P. O. Box 2178
Charlotte, North Carolina 28201

cc: William L. Porter, Esquire
Duke Power Company
422 South Church Street
Charlotte, North Carolina 28201

Docket No. 50-289
Metropolitan Edison Company
ATTN: Mr. John G. Miller
Vice President
P. O. Box 542
Reading, Pennsylvania 19603

cc: Mr. Gerald Charnoff
Shaw, Pittman, Potts and
Trowbridge
910 17th Street, N.W.
Washington, D. C. 20006

Docket No. 50-312
Sacramento Municipal Utility District
ATTN: Mr. E. K. Davis, General
Manager
6201 S Street, P. O. Box 15830
Sacramento, California 95813

cc: David S. Kaplan, General Counsel
and Secretary
6201 S Street
Sacramento, California 95813

Docket No. 50-313
Arkansas Power and Light Company
ATTN: Mr. J. D. Phillips
Vice President & Chief
Engineer
Sixth and Pine Streets
Pine Bluff, Arkansas 71601

cc: Horace Jewell, Esquire
House, Holms & Jewell
1550 Tower Building
Little Rock, Arkansas 72201

Docket No. 50-302
Florida Power Corporation
ATTN: Mr. J. T. Rodgers
Assistant Vice President &
Nuclear Project Manager
P. O. Box 14042
St. Petersburg, Florida 33733

cc: Florida Power Corporation
Mr. S. A. Brandimore
Vice President & General
Counsel
P. O. Box 14042
St. Petersburg, Florida 33733