



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

MAR 16 1984

Arkansas Power and Light Company
ATTN: John Marshall, Manager
Licensing
P.O. Box 551
Little Rock, Arkansas 72203

Gentlemen:

Subject: Case Study Report - Low Temperature Overpressure Events
at Turkey Point Unit 4


Following resolution of peer review comments, we have completed the enclosed study of low temperature overpressure events. This study concentrates on two overpressure events that occurred at Turkey Point, Unit 4, but also considers related events at other pressurized water reactors occurring after 1979 when the staff resolved the generic issue entitled, "Reactor Vessel Pressure Protection (Overpressure Protection)."

The report provides: (1) an analysis and evaluation of the Turkey Point events; (2) a review of operating events that have challenged the low temperature overpressure protection (LTOP) systems; (3) evaluation of the LTOP technical specifications; (4) an evaluation of water solid operation during the low temperature regime; and (5) recommendations that, if implemented, could reduce challenges to the overpressure protection system and strengthen its mitigatory capability to minimize the potential severity of overpressure events.

The recommendations contained in this report are under review within the Nuclear Regulatory Commission. The report is being forwarded for your information and use as you deem appropriate.

If you have any questions regarding this report, please contact Wayne D. Lanning of my staff. Mr. Lanning can be reached at (301) 492-4433.

Sincerely,


C. J. Heltemes, Jr., Director
Office for Analysis and Evaluation
of Operational Data

Enclosure:
As stated

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Original signed by:
C. J. Heltemes, Jr.

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