



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

Docket No. 50-382

FEB 11 1981

APPLICANT: Louisiana Power & Light Company
FACILITY: Waterford Steam Electric Station, Unit No. 3
SUBJECT: SUMMARY OF MEETING ON LOCA ASYMMETRIC LOAD ANALYSIS

On January 22, 1981, members of the NRC staff met with the applicant and their consultants to discuss the above subject. Attendees are listed in the enclosure.

Summary

The applicant's analysis of LOCA asymmetric loads is plant specific for fuel, RPV internals, and CEDM's and the balance of the review references the CE generic report and the St. Lucie report. The staff has some difficulty with this because neither has had staff approval. The applicant's consultant Ebasco who is also involved with the CE generic plant analysis will attempt to speed up the review of the CE report by expediting their response to our questions on the CE plant. The fact that they also referenced the St. Lucie analysis is not crucial to staff review. The staff will base their review only on the CE generic report.

Ebasco was given a copy of the recently issued NUREG-0609, "Asymmetric Blow-down Loads on PWR Primary Systems", which describes the desired methodology for this analysis. In order to facilitate staff review, Ebasco committed to revise their report to conform to the format of 0609 where possible. Staff also requested that in place of referencing FSAR sections in the report, that a summary of the assumptions and relevant design parameters be incorporated into the text. This listing of design parameters assumptions will especially help our consultants in their review of the Waterford Unit no. 3 analysis as an independent report. The intent is to avoid duplication of effort in reviewing the CE generic report.

The dominant break to be used for the fuel analysis will be a single cold leg at the vessel inlet nozzle. Ebasco will provide the documentation to demonstrate that a limited hot leg break will be less than 135 square inches. The CE generic report showed that a cold leg break was governing for all cases over a limited 135 in.² hot leg break. Therefore, the cold leg break should also be the dominant break for Waterford Unit No. 3.

The staff requested that a dynamic linear elastic time-history analysis be performed on the remaining ECCS lines attached to the reactor coolant loop. The results are to be documented in the final report.

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The staff reviewers from Mechanical Engineering Branch stated that our consultant ORNL should have questions ready by the end of January on the draft Q110.1 response dated 11/14/80. He will contact them to verify the date. Other NRC branches (Core Performance Branch, Reactor Systems Branch, and Containment Systems Branch) will also have input in this review of the final report with the 0609 format and additional design information.

The Core Performance Branch was informed that the fuel analysis, which will be plant specific, is scheduled to begin in February and take one year to complete. Ralph Meyer (CPB) stated that the CE topical report should be reviewed and approved by late spring. He suggested a technical meeting in mid-May in which the applicant should present preliminary calculations which could provide a means for comparing it to this approved topical report. The staff would hope to obtain enough information at that point to write an SER which temporarily and conditionally closes out this item. This same approach will apply to the MEB input, which will have to wait for the approval of the CE owners group report for final write-off in a SER supplement. The LOCA Asymmetric Load question will be addressed by each branch in their respective sections in the SER.

Suzanne Keblusek

S. Keblusek, Project Manager
Licensing Branch No. 2
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Enclosure:
List of Attendees

cc w/encl:
See next page

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LOCA ASYMMETRIC LOAD ANALYSIS
JANUARY 22, 1981

ATTENDANCE LIST

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R. Meyer
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LP&L (Louisiana Power & Light Company)

R. Prados
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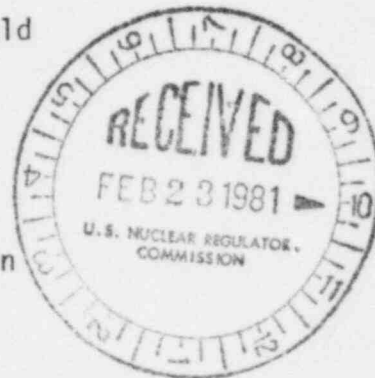
K. Iyengar

MEETING SUMMARY DISTRIBUTION

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Docket File
NRC PDR
Local PDR
NSIC
TIC
TERA
NRR Reading
LB #2 File
H. Denton
E. Case
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W. Haass

D. Muller
R. Ballard
W. Regan
D. Ross
P. Check
R. Satterfield
D. Parr
F. Rosa
W. Butler
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R. Houston
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L. Rubenstein
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W. Johnston
J. Stolz
S. Hanauer
W. Gammill
F. Schroeder
D. Skovholt
M. Ernst
R. Baer
C. Berlinger
K. Kniel
G. Knighton
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D. Tondi
D. Vassallo
J. Kramer
P. Collins
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S. Ramos
S. Schwartz



NRC Participants:

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E. Chelliah

Others:

BCC: Applicant & Service List