



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20540

June 1, 1988

MEMORANDUM FOR:

Steven A. Varga, Director
Division of Reactor Projects I/II
Office of Nuclear Reactor Regulation

FROM:

John A. Galvin, Director
Project Directorate - IV
Division of Reactor Projects - III,
IV, V and Special Projects
Office of Nuclear Reactor Regulation

M. W. Hodges, Chief
Reactor Systems Branch
Division of Engineering and System Technology
Office of Nuclear Reactor Regulation

SUBJECT:

MPA 1.10 11.1.1.1 COMPLIANCE WITH 10 CFR 50.46

11.1.1.10 requires small break (SBA) LOCA codes be verified against test data.
11.1.1.1 requires plant specific calculations using the appropriate, approved
SBA codes from the 11.1.1.10 effort.

1. Safety Significance

- A) Most plants are large break limited, i.e., with small break codes verified to test data and plant specific calculations performed for most plants, few changes in limits or plant conditions have resulted from this effort.
- B) Appendix K requirements may not be completely satisfied without an "analysis of record" on small breaks as well as large breaks. Regulations require that the analysis be submitted. There may be some discrepancies on our review.
- C) Proposed large break rule may allow plants to use "best estimates" approach which is expected to remove many conservatism in current analyses of record. Small breaks could become limiting if not included in break spectrum or best estimate approach and a completed 11.1.1.10 and 11 would be required.
- D) Using April 29, 1988 "Priority Ranking System for Review Efforts", the overall priority is a 3. Considered individually, all of the remaining efforts are a 1 except for the Exon code review which might be considered a 4. However, the Exon effort is essentially complete and would not be cost beneficial to stop now and restart later.

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2. Current Plan

" Haddam Neck: 11.K.3.30 and 31

Revised final TFR in concurrence.
No further Contractor assistance.
1 week Reviewer effort remaining.

July 31, 1988 final SFR in PM.

" Maine Yankee and Yankee Rowe: 11.K.3.30

Revised final TFR in concurrence.
No further Contractor assistance.
10 days reviewer effort remaining.

September 30, 1988.

" Maine Yankee & Yankee Rowe: 11.K.3.31 (Plant Specific)

No submittal yet.
Ten days reviewer effort for each.

1989 completion for both efforts.

Exxon: 11.K.3.30 (No Plants)

Revised final TFR removing restrictions is due soon.
CAND review or waiver required for topical.
No substantial contractor assistance needed.
10 days reviewer effort.

September 30, 1988 if CAND does not review.

" B&W Topical: 11.K.3.31

1) Lower Loop Plants of,
Crystal River 3, Arkansas 1, Oconee 1, 2, & 3,
Rancho Seco, TMI-1, San Onofre 1
2 week contractor or reviewer effort.
Draft TFR by June 30
SFR by end of October, 1988

2) Raised Loop Plant of Davis Besse
Draft TFR by July 31
SFR by end of November, 1988
2 week contractor effort or reviewer effort.

" O.G. Cook #1 11.K.3.31

Qualitative assessment of Exxon fuel and applicability to W codes.
No contractor assistance.
Two weeks reviewer effort.

3. Proposed Plan

After reviewing the remaining resources to finish reviews and those necessary to complete at a later date, the reviews for Haddam Neck, Maine Yankee, Yankee Rowe, and FXXON are unchanged. The N&W topics will be finished. The staff will provide cursory review and close out if it is clear that large break LOCA is still pending. The tank submittal will be given cursory review and appropriately closed out.

/s/

Jose A. Calvo, Director
Project Directorate - IV
Division of Reactor Projects - III,
IV, V and Special Projects
Office of Nuclear Reactor Regulation

/s/

M. W. Hodges, Chief
Reactor Systems Branch
Division of Engineering and System Technology
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Enclosure:
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3. Proposed Plan

After reviewing the remaining resources to finish reviews and those necessary to complete at a later date, the reviews for Haddam Neck, Maine Yankee, Yankee Rowe, and EXXON are unchanged. The HAW topical will be finished. The staff will provide cursory review and close out if it is clear that Large Break LOCA is still limiting. The Cook submittal will be given cursory review and appropriately closed out.

/s/

Jose A. Calvo, Director
Project Directorate - IV
Division of Reactor Projects - III,
IV, V and Special Projects
Office of Nuclear Reactor Regulation

/s/

M. W. Hodges, Chief
Reactor Systems Branch
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3. Proposed Plan

After reviewing the remaining resources to finish reviews and those necessary to complete at a later date, the reviews for Haddam Neck, Maine Yankee, Yankee Rowe, and IXXON are unchanged. The R&W topicals will be finished. The staff will provide cursory review and close out if it is clear that Large Break LOCA is still limiting. The Cont submittal will be given cursory review and appropriately closed out.

Jose A. Calvo, Director
Project Directorate - IV
Division of Reactor Projects - III,
IV, V and Special Projects
Office of Nuclear Reactor Regulation

M. W. Hedges

M. W. Hedges, Chief
Reactor Systems Branch
Division of Engineering and System Technology
Office of Nuclear Reactor Regulation

Enclosure:
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