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JUL 15 1982

MEMORANDUM FOR: Dennis L. Ziemann, Chief
 Procedures and Test Review Branch
 Division of Human Factors Safety

THRU: *Original signed by* H. Brent Clayton, Acting Section Leader
 Section A - Procedures
 Procedures and Test Review Branch
 Division of Human Factors Safety

FROM: Michael J. Goodman
 Section A - Procedures
 Procedures and Test Review Branch
 Division of Human Factors Safety

SUBJECT: SUMMARY OF MEETINGS WITH COMBUSTION ENGINEERING
 AND COMBUSTION ENGINEERING OWNERS' GROUP ON
 EMERGENCY OPERATING PROCEDURE GUIDELINES,
 JUNE 23, 24 AND 29, 1982

On March 31, 1982, a meeting was held with Combustion Engineering (C-E) and the C-E Owners' Group to discuss the C-E Emergency Operating Procedure Guidelines Program. Based on the presentation made by C-E, the staff identified several guideline areas requiring additional work. C-E and the C-E Owners' Group agreed to incorporate staff comments into a revised set of draft guidelines (CEN-152, REV 1) which would be provided to the staff for review by May 1, 1982. Some time after the March 31, 1982 meeting, Warren Lyon replaced Jukka Laaksonen as the RSB reviewer for C-E Owners' Group Guidelines. Meetings were scheduled for June 23, 24 and 29, 1982, to provide a suitable transition between reviewers, allow the new reviewer to meet other staff reviewers and involved industry personnel, to discuss preliminary staff comments on the revised draft guidelines (CEN-152, REV 1), and to develop a schedule for future submittals and reviews. A list of attendees is enclosed (Enclosure 1).

The preliminary review of the programmatic aspects of CEN-152, REV 1 by the PTRB staff was positive; no significant programmatic problems were found. The technical review by RSB, however, did identify a number of areas for which clarification or other action by the C-E Owners' Group was necessary. The majority of these items were resolved at the meetings. Most of the remaining "open" items fell into four categories as follows:

1. EPG Boundaries
 - a. Power Level Dependence
 - b. Entry Upon Reactor Trip

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2. EOP Interfaces With Other Procedures

- a. Natural Phenomena
- b. Electrical Power Sources (e.g., Blackout)
- c. Radioactivity Release Management (e.g., Handling of Multiple S. G. Tube Ruptures)
- d. Containment Integrity (e.g., Flooding, Isolation, Site Emergency Plan)
- e. Tech. Spec. Cooldown Limits
- f. Condensate Management (e.g., alternate sources of water)
- g. RCP Operation (e.g., Restart Criteria)

3. Physical Phenomena

- a. Hydraulic Instabilities
- b. Degraded Core

4. Design Related

- a. PORVs
- b. Sensor Locations

It was pointed out by C-E that not all open items can be resolved in the final version of the guidelines; some items (e.g., degraded core) are more appropriately dealt with elsewhere. Furthermore, scheduling of future submittals and reviews could not be done until the impact of staff comments could be assessed.

In addition to the above items, the staff was concerned that guidance needed for implementation of the draft guidelines was incomplete and that the guidelines were not organized in a way that would facilitate the development of plant specific emergency operating procedures (EOPs). In this regard, the C-E Owners' Group was requested to provide some means of assuring the staff that acceptable plant specific EOPs can be developed from the guidelines. It was suggested that a set of selected procedures from a pilot plant (Calvert Cliffs) might provide adequate assurance. Furthermore, the staff indicated that before the next meeting it will identify for C-E and the C-E Owners' Group some specific areas in the guidelines where additional implementation guidance would be useful.

It was agreed that another meeting should be scheduled as soon as possible. At the next meeting C-E will provide an overview of their program, and discuss implementation and validation of the guidelines. In addition, open items will

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be discussed as well as those areas in the guidelines for which additional implementation guidance was suggested by the staff.

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Michael J. Goodman
Section A - Procedures
Procedures and Test Review Branch
Division of Human Factors Safety

Enclosure:
List of Attendees

cc w/enclosure:
H. Denton
E. Case
H. Thompson
W. Burchill, C-E
J. Barrow, C-E Owners' Group
W. Lyon

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DATE ▶	7/15/82	7/15/82					

ENCLOSURE 1

LIST OF ATTENDEES

JUNE 23 AND 24, 1982:

NRC

- M. Goodman
- D. Ziemann
- W. Lyon
- J. Laaksonen
- J. Kozetis
- W. Kennedy
- B. Clayton
- R. Urban
- S. MacKay
- R. Schemel
- S. Bryan

C-E

- W. Burchill
- G. Bischoff
- R. Pearce

C-E Owners' Group

- V. Callaghan
- J. Barrow
- J. Bowlby
- D. Crouch
- G. Peelen
- G. Pavis

JUNE 29, 1982:

NRC

- M. Goodman
- W. Lyon
- W. Kennedy
- S. Bryan
- W. Middleton
- B. Clayton
- D. Ziemann

C-E

- G. Bischoff
- R. Pearce
- W. Burchill

C-E Owners' Group

- G. Pavis
- J. Barrow

Other

- L. Connor, Doc-Search Associates -
"NRC Calendar"

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