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POWER GENERATION GROUP

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From
E. A. WOMACK, MANAGER, PLANT DESIGN

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Subj.
ABNORMAL TRANSIENT OPERATING GUIDELINES PROGRAM

Date
AUGUST 15, 1979

This letter is cover one customer and one person only.

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The Abnormal Transient Operating Guidelines Program proposed by B&W has been reviewed by the Operating Plant Owners Group and the NRC, and we have been authorized to proceed with the initial phase of guideline preparation. Attachment 1 summarizes the program scope and schedule for submittal of the guidelines to NRC. The complex nature and tight schedule for this first-of-a-kind effort to improve operator performance during transients and accidents requires special attention to deliver a technically superior product to our customers and the NRC. I am, therefore, assigning Mr. J. J. Kelly of Plant Integration as the Technical Program Manager for the ATOG Project. In addition, an Abnormal Transient Operating Guidelines "Team" has been assigned to Mr. Kelly, per the attached organization chart, to assist in meeting the overall program objectives. The duties and responsibilities of the team members are summarized on the chart.

The long term milestone events for the program are described on attachment 1; to assist in delivering these output products on time, the following short term action has been identified for the team:

1) Prepare sample event tree for the Loss of Main Feedwater Event and obtain agreement on the overall structure - 8/17.

2) Identify work scope for EDS participation in the program; meet with EDS and establish the basis for a proposal - 8/17.

3) Prepare a work plan for the ATOG Program to include detailed work scope, cost, and schedule; issue task order for Owners Group approval - 8/31.

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4) Issue a separate work plan to address inadequate core cooling; include detailed work scope, cost and schedule for discussion with NRC and Owners - 8/31.

5) Identify plant characteristics and input data required for preparation of event trees and confirmatory analyses - 9/7.

6) Identify computer code revisions necessary to perform realistic long term analysis - 9/14.

7) Complete first draft of event trees for defined transients - 9/28.

8) Issue revised operating guidelines to address inadequate core cooling - 10/31.

B&W has a unique opportunity to become the industry leader in this most important element of the TMI-2 Lessons Learned. I am looking to Mr. Kelly, with the full support of his team members, to meet these program objectives, and deliver a set of event trees and guidelines which can be used as a model for improving the communication between the system design and analysis and the plant operators.

I have also requested Mr. Kelly to conduct periodic briefings with me to summarize program status, significant accomplishments and areas of difficulty which require special attention. The first session will be held on Friday, August 24 at 10:00 a.m. in Conference Room "A".

EAW/kc

Attachment

E. A. Womack Jr.

ATTACHMENT 1

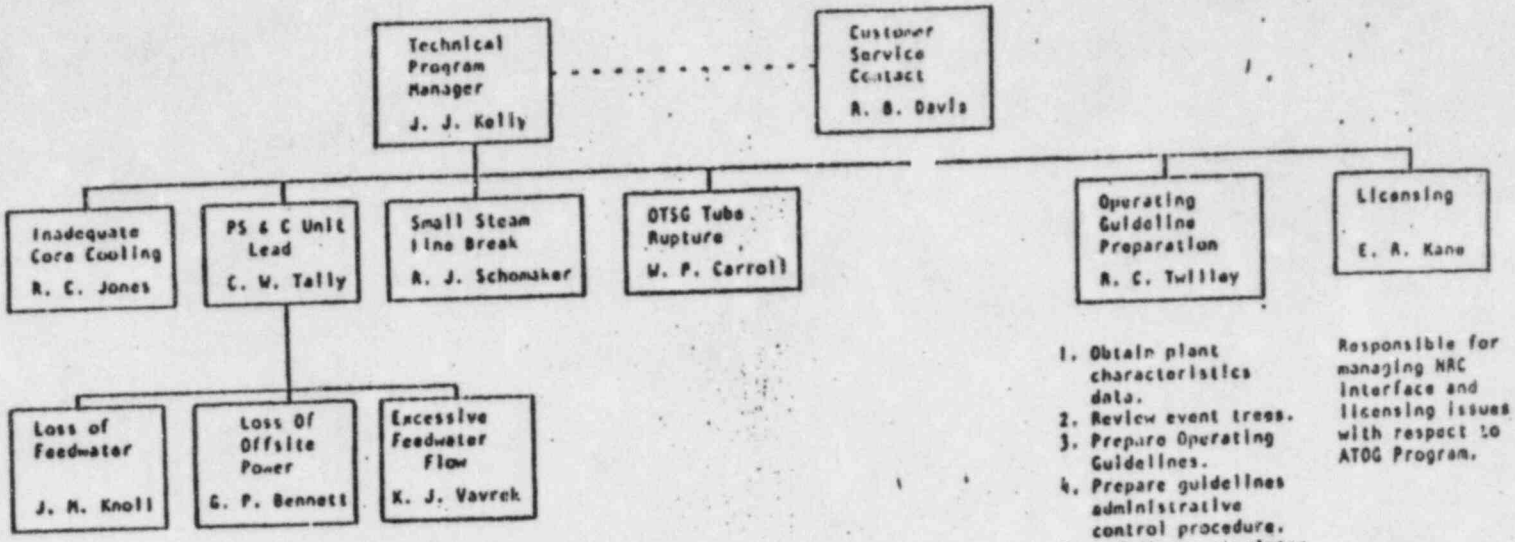
TRANSIENTS SELECTED
FOR
GUIDELINE PREPARATION

- Increase in Heat Removal by Secondary System
  - Small Steam Leaks
  - Excessive Feedwater Flow
- Decrease in Heat Removal by Secondary System
  - Loss of Feedwater
  - Loss of Station Power
- Decrease in Reactor Coolant Inventory
  - Steam Generator Tube Rupture
  - Inadequate Core Cooling
  - Loss of Coolant

SCHEDULE

Revise Current LOCA Guidelines to Address Inadequate Core Cooling.	10/31/79
Prepare Event Trees for Defined Transients and Identify Analytical Work Scope.	10/15/79
Complete Confirmatory Analysis.	12/15/79
Submit Abnormal Transient Operating Guidelines to Owners.	01/15/80
Submit Abnormal Transient Operating Guidelines to NRC.	2/15/80

ABNORMAL TRANSIENT OPERATING GUIDELINES TEAM



1. Obtain plant characteristics data.
2. Review event trees.
3. Prepare Operating Guidelines.
4. Prepare guidelines administrative control procedure.
5. Coordinate simulator activities.
6. Present guidelines to plant operators.
7. Prepare text, cost and schedule for proposal for areas of responsibility.

Responsible for managing NRC interface and licensing issues with respect to ATOG Program.

PERFORMANCE ENGINEER RESPONSIBILITIES

- Prepare Event Trees.
- Select Branches to be Analyzed.
- Document Analytical Inputs, Assumptions and Bases.
- Define and Coordinate Necessary Code Modifications to Obtain Realistic Analyses.
- Perform Transient Analyses and Document Results.
- Prepare Description of Expected Plant Behavior During Transient.
- Develop Text, Cost and Schedule Input to Proposal in Areas of Responsibility.
- Review Operating Guidelines for Consistency with Event Trees and Confirmatory Analysis.