

Nuclear Services 175 Curtner Ave. M/C 747 San Jose, CA 95125 (408) 925-1913, Fax (408) 925-6710 E-mail: george.stramback@gene.ge.com

MFN 02-012

March 14, 2002

U.S Nuclear Regulatory Commission Document Control Desk Washington, D.C. 20555-0001

Attention:

Chief, Information Management Branch

Program Management

Policy Development and Analysis Staff

Subject:

GE Draft Presentation Slides (Non-Proprietary)

Re: MELLLA+ Stability & ATWS Pressure with TRACG

Reference:

GE Licensing Topical Report NEDC-33006P, "General Electric Boiling

Water Reactor Maximum Extended Load Line Limit Analysis Plus,"

January 2002

Enclosed are the non-proprietary draft presentation slides for two meetings with the NRC staff on March 27, 2002. The first (Attachment 1) is for the MELLLA+ Stability Meeting, which refers to the M+LTR, which was submitted for NRC Review (Reference). The second (Attachment 2) is for the ATWS Pressure with TRACG Meeting, on the same day. The proprietary draft slides were provided in a separate transmittal on March 12, 2002.

If you have any questions about the information provided here please contact PT Tran at (408) 925-3348, or myself.

Sincerely,

George Stramback

Regulatory Services, Project Manager

GE Nuclear Energy

(408) 925-1913

george.stramback@gene.ge.com

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Attachments:

1) Stability LTS Option III Licensing Basis For MELLLA+, LTS Option III-CD (Confirmation Density), Open Session, March 27, 2002

2) TRACG Application for ATWS Overpressure Transient Analyses, Open Session, March 27, 2002

cc:

JE Donoghue – USNRC

FT Bolger
JF Klapproth

I Nir PT Tran



Stability LTS Option III Licensing Basis For MELLLA+

LTS Option III-CD (Confirmation Density)

Open Session

Presentation to USNRC Israel Nir

March 27, 2002





Meeting Objective

- Present Stability Option III-CD licensing basis for MELLLA+
- Obtain feedback on the proposed approach
- Review schedule/plan



- Introduction
- Approach Objectives
- Proposed Approach
- Methodology Changes
- Expected MCPR Margin
- Methodology Elements
- Summary of Benefits
- Proposed Schedule
- Feedback/Questions



- M+LTR Submittal to the NRC 1/02
- Kickoff Meeting with NRC 02/02
- M+LTR stability technical discussion
 - Not included in current M+LTR submittal
 - Deferred to be addressed consistent with DIVOM Curve Issue
- Stability DIVOM Curve status for MELLLA+
 - Study concluded that DIVOM curve may not be viable for M+
 - GE proposes LTS Option III-CD concept
 - Plan to implement LTS Option III-CD for MELLLA+ lead plants



Approach Objectives

- Lasting fix to existing LTS III DIVOM issue
- Minimize method complexity
- · Reliable detection algorithms/suppression methods
- Avoid significant HW/SW modifications
- Minimize impact on reload analysis
- Acceptable to NRC



Proposed Approach

- Introduce new efficient reactor instability detection method
- Minimize method complexity
- Reliable detection algorithms/suppression methods
- No hardware changes
- Minimal SW change to implement new detection logic
- Eliminate detailed cycle specific reload analysis

- LTS III-CD expected to provide adequate protection against reactor instability
- Separate LTR for LTS III-CD will be generated and submitted
- M+LTR will reference LST III-CD LTR

M+LTR with LTS Option III-CD concept resolution provides adequate technical content to initiate NRC review of M+LTR

MELLLA+ Implementation Target Plan

•	M+LTR Submittal			01/02
•	LTR for LTS III-CD)		06/02
•	Plant Specific Submittals:			
	-	M+SAR	Expected SER	
	Clinton:	TBD	TBD	
	- Brunswick:	TBD	TBD	
	Browns Ferry:	01/03	TBD	
•	Proposed:			
	 Initiate M+LTR Review 			01/02
	 MELLLA+ Technical Meeting with Staff 			04/02
	 Technical Review Follow-up w/ Staff in SJ 			06/02
	 Initiate stability Technical Review 			07/02
•	NRC SER on			
	LTS III-CD			01/03
	- M+LTR			01/03

Questions/Feedback

GE Nuclear Energy

TRACG Application for ATWS Overpressure Transient Analyses

Open Session

Presentation to USNRC Fran Bolger March 27, 2002



Objectives

 Propose a methodology, via Licensing Topical Report (LTR), to perform BWR/2-6 licensing analyses for ATWS overpressure transients with TRACG

 Obtain NRC approval (SER) to use TRACG for the ATWS overpressure transient application

Scope

- Limit the scope of the LTR to the overpressure portion of the ATWS transient
- Utilize the same LTR format as the recently approved TRACG AOO Application LTR

Nuclear Power Plant Selection

- BWR/2, external pump, variable speed recirculation pumps
- BWR/3, jet pump, variable speed recirculation pumps
- BWR/4, jet pump, variable speed recirculation pumps
- BWR/5, jet pump, valve flow control or variable speed recirc pumps
- BWR/6, jet pump, valve flow control, fast scram

Applicable to BWR/2-6

Code Documentation

- TRACG Model Description LTR
- TRACG Qualification
- TRACG Application for AOO Transient Analyses
- TRACG02A User's Manual
- TRACG Application for ATWS Overpressure Transient Analyses
 - to be submitted

Code Internal Documentation and Application Procedures

Compliant with the intent of NQA 1, Part 2.7 and the overlapping requirements from 10CFR50 Appendix B governing all aspects of software development, testing, documentation, deployment and control.

Proposed Schedule - 2002

