



GE Nuclear Energy

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May 11, 1995

MFN No. 074-95
Docket STN 52-004

Document Control Desk
U. S. Nuclear Regulatory Commission
Washington DC 20555

Attention: Theodore E. Quay, Director
Standardization Project Directorate

Subject: SBWR TRACG Application Licensing Topical Report Outline
and Analysis Deliverables

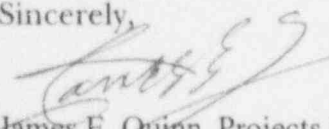
- References:
1. Letter MFN No. 068-95, J. E. Quinn (GE) to T. E. Quay (NRC);
SBWR, MINUTES OF TELECON WITH NRC ON APRIL 6,
1995; dated April 28, 1995.
 2. Letter MFN No. 018-95, J. E. Quinn (GE) to R. W. Borchardt
(NRC), APPROACH TO ACHIEVE CLOSURE OF ITEMS
RELATED TO THE GE SBWR TAPD, dated February 14, 1995.

Attachment 1 to this letter, "Application of TRACG Model to SBWR Licensing Safety Analysis", NED-32178, Rev.1, Table of Contents provides an outline for the updated TRACG Application Licensing Topical Report (LTR) NED-32178 as requested by the NRC in item 4. of the Attachment to Reference 1. This LTR update is scheduled to be submitted to NRC in April 1996 as indicated in Attachment 1 to Reference 2.

Attachment 2 to this letter, "Deliverables from TRACG Analysis Program", provides an overall schedule of the TRACG Analysis Reports as requested by NRC in item 3.b) of the Attachment to Reference 1.

If you have any questions regarding SBWR TRACG Analyses please contact Bharat Shiralkar of our staff on 408-925-6889.

Sincerely,


James E. Quinn, Projects Manager
LMR and SBWR Programs

- Attachments:
1. Application of TRACG Model to SBWR Licensing
Safety Analysis, NED-32178, Rev.1, Table of Contents
 2. Deliverables from TRACG Analysis Program

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Attachment 1 to MFN No. 074-95

Application of TRACG Model to SBWR Licensing Safety Analysis, NED-32178,
Rev.1

Table of Contents

- 1. Summary**
- 2. Scope Of Model Application**
- 3. Transient Analysis**
 - 3.1 Introduction
 - 3.2 Event Selection
 - 3.3 Model Description
 - 3.4 Evaluation of Transients
Safety Criteria
 - 3.5 Model and Plant Parameter Uncertainty
Model/ Experiment
Scale Effects
Plant Input and State Conditions
 - 3.6 Plant Sensitivity Studies
Initial Conditions
Effects of Perturbations in Model/Plant Parameters
 - 3.7 Combination of Uncertainties
 - 3.8 Results for Plant Operating Limit CPR
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 - 4.2 Event Selection
 - 4.3 Model Description
 - 4.4 Evaluation of ATWS
Safety Criteria
 - 4.5 Plant Sensitivity Studies
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Effects of Perturbations in key Parameters
 - 4.6 Results for Plant ATWS Calculations
 - 4.7 Summary of Design Application Process



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5. ECCS/LOCA Analysis

- 5.1 Introduction
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- 5.3 Model Description
- 5.4 Evaluation of LOCA
 - Safety Criteria
 - Break Spectrum Calculations
- 5.5 Model and Plant Parameter Uncertainty
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 - Plant Input and State Conditions
- 5.6 Plant Sensitivity Studies
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 - Single Failure Considerations
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- 5.7 Combination of Uncertainties
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- 6.3 Model Description
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 - Safety Criteria
- 6.5 Model and Plant Parameter Uncertainty
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 - Effects of Perturbations in Model/Plant Parameters
- 6.7 Use of Bounding Assumptions for Noncondensable Mixing Parameters
- 6.8 Combination of Uncertainties
- 6.9 Results for Containment Pressure and Temperature Response
- 6.10 Summary of Design Application Process

7.0 References



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Attachment 2 to MFN No. 074-95

Deliverables from TRACG Analysis Program

Pre-Test Predictions

Date to NRC

PANTHERS IC	6/19/95
PANDA M3	7/3/95
PANDA M5	8/30/95
PANDA M2	9/30/95
PANDA M9	9/30/95
GIRAFFE/Helium (blind post-test)	6/30/95
GIRAFFE/SIT (blind post-test)	7/17/95

Preliminary Validation Reports

PANDA Steady State Tests	7/18/95
PANDA Transient Tests	2/28/96
PANTHERS/PCCS	7/30/95
PANTHERS/IC	2/28/96
GIRAFFE/Helium	10/30/95
GIRAFFE/SIT	12/15/95

<u>TRACG Qualification LTR Supplement</u>	3/31/96
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<u>TRACG Model LTR Update</u>	12/31/95
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<u>TRACG Application for SBWR Safety Analysis LTR Update</u>	3/31/96
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