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US Nuclear Regulatory Commission  
Document Control Desk  
Washington DC 20555

Attention: Chief, Information Management Branch  
Program Management  
Policy Development and Analysis Staff

Subject: **GE Non-Proprietary Slides for May 9, 2001 GE/NRC Meeting**

A meeting has been scheduled with members of the NRC Staff and representatives of GE on May 9, 2001. The topic to be discussed is the GE proposal to introduce the TRACG code for ECCS/LOCA analysis.

Attached are the non-proprietary slides to be presented at the May 9 meeting.

Sincerely,

*M. P. Harding for*  
J.F. Klapproth, Manager  
Engineering and Technology

Attachment: 1. May 9, 2001 Presentation Slides (Non-Proprietary)

cc: R. Pulsifer (NRC)  
R. Caruso (NRC)  
G. Watford (GNF)

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# **Introduction and Agenda**

**TRACG Methodology  
For Application to BWR  
ECCS/LOCA**

**Presentation to USNRC  
Bharat Shiralkar**

**May 9, 2001**



# Agenda

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- **Introduction** **9:00-9:30**
  - Meeting Objectives
  - Overview of Proposed Processes
  - Schedule Highlights
  
- **TRACG Application to BWR ECCS/LOCA** **9:30-11:30**
  - Review Elements
  - LTR Outline
  - Application Methodology
  
- **Discussion and Action Items** **11:30-Noon**

# Meeting Objectives

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- Provide an Overview of the Proposed TRACG Application to BWR ECCS/LOCA Licensing Analyses
- Present GE Recommendations on Review Methodology
- Describe Proposed Leverage of Prior USNRC TRACG Review
- Review Proposed Schedule

Start of a Process that Results in a  
NRC SER by 4Q2002

# **TRACG Application Review Scope**

## **•What Is in Scope**

- Application only to BWR-2 through BWR-6
- Application to ECCS/LOCA

## **•What Is Not in Scope?**

- Containment Response
- Application to ABWR or SBWR

# **Benefits to Industry by use of TRACG**

- **Integrated Analysis Using a Single Computer Code**
  - Eliminate potential for errors in data transcription between codes
  - Improved understanding of process by all organizations
    - Plant Staff/Analysts/Regulators
- **More Realistic Prediction of Plant LOCA Response**
  - Improved plant safety
  - Improved Operating Limits/Plant Capacity Factors
- **Better Quantification of Margin and Uncertainty**
  - Application to risk-based decision making
  - Removal of 1600F limit on SAFER Upper Bound PCT

# **Licensing Review Approach**

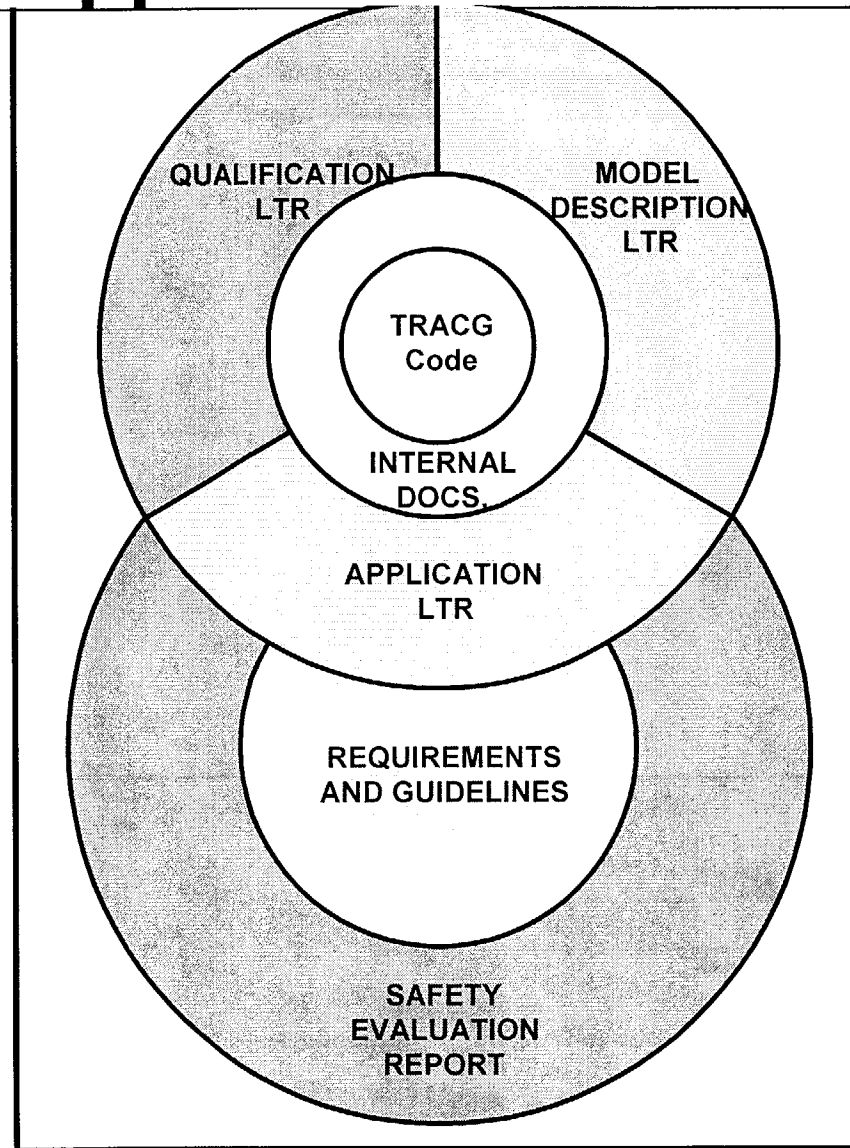
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- **Build on Previous NRC Reviews of TRACG**
  - Documents submitted and reviewed for BWR AOO application
    - Model Description LTR: NEDE-32176P
    - Qualification LTR: NEDE-32177P
  - NRC RAIs received by GE
- **Revise/expand previously submitted documents to:**
  - Include LOCA-specific models and qualification
  - Include RAI responses to AOO as applicable

**Leverage Prior NRC Review  
to Our Mutual Advantage**

# TRACG Application Framework

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# Approach

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**Model LTR**  
NEDE-32176P

Rev. 2  
Reviewed by NRC  
for AOOs

Rev. 3  
To be issued 11/01  
Incorporates LOCA  
models

**Qualification LTR**  
NEDE-32177P

Rev. 2  
Reviewed by NRC for  
AOOs

Rev. 3  
To be issued 11/01  
Incorporates additional  
LOCA-specific  
Qualification Studies

**Application LTR**  
NEDE-33005

Rev. 0  
Will document  
ECCS/LOCA Application  
Methodology 11/01

Approach similar to AOO  
Follows CSAU/RG1.157

Primary Review is Application Methodology

# Key Milestones

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<u>Date</u>	<u>Milestone</u>
5/01	GE/NRC Kickoff Meeting
5/01	Submit Licensing Application Framework Document
6/01	NRC Concurrence with Review Plan
11/01	LTR Submittals
12/02	SER for TRACG ECCS/LOCA Application