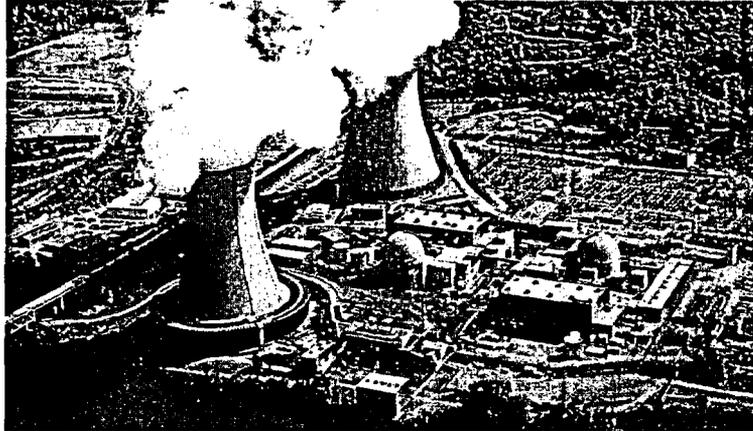


*Containment Conversion Meeting
August 5, 2003*



FENOC
Fuel Elements Nuclear Operating Company

Agenda

- Introductions
- Objectives
- Background
- Plans to Modify MAAP Code
- Potential Impact on Containment Design Pressure
- Modified MAAP Submittals
- Potential Impact on License Amendment Requests
- Staff Comments & Discussion
- Conclusions

FENOC
Fuel Elements Nuclear Operating Company

Objectives

- Advise Staff on Going Forward Plans on:
 - Revised Containment Analysis
 - Containment Conversion
 - Best Estimate LOCA Analysis
 - Large Power Uprate
 - Schedules
- Obtain Staff Feedback on Plans

FENOC
Florida Nuclear Operating Company

Background

- Westinghouse Submitted MAAP5 Topical March 2001
- BV Atmospheric Containment Conversion License Amendment Request (LAR) Submitted June 2001
 - Dependent on MAAP5 Topical
- Containment Conversion Assumed in Best Estimate LOCA LAR and Large Power Uprate Efforts

FENOC
Florida Nuclear Operating Company

Modified MAAP Code

- MAAP5 Topical Report Withdrawn
- Revising MAAP to Align with Previously NRC Approved Methods
 - Removed Forced Convection and Entrainment
 - Incorporating Tagami/Uchida Heat Transfer
 - Treatment of LOCA Blowdown Consistent with GOTHIC (Aerosols)

FENOC
Full-Order Nuclear Core Analysis Code

Modified MAAP Code - continued

- Single Node Model with Tagami/Uchida Heat Transfer used for Calculating:
 - Peak Pressure
 - EQ Temperatures
 - Liner Temperatures
- Multi Node Model with Conservative Heat Transfer used for Calculating:
 - LBLOCA NPSH
 - SBLOCA Sump Water Level

FENOC
Full-Order Nuclear Core Analysis Code

Modified MAAP Code - continued

- Benchmarking Modified MAAP against GOTHIC
- Benefits of Modified MAAP
 - Improved Accounting of Water Holdup for NPSH, Water Inventory and Debris Transport Calculations
 - Supports Timely Submittal
 - Provides Common Platform for PRA & Containment Applications



Potential Impact on Containment Design Pressure

- Evaluating Changes that Effect Containment Peak Pressure
 - Initial Containment Pressure Condition
 - MSLB Mass & Energy Releases
 - Heat Sinks
- May Require Increasing Design Pressure



Modified MAAP Submittals

- Current Containment Conversion LAR
 - Partial Withdrawal of non Alternate Source Term/Control Room Habitability Portion
- Docket Details of Meeting

FENOC
Professional Nuclear Consulting Corporation

Modified MAAP Submittals - continued

- Pre-application Submittal - Fall 2003
 - Revised MAAP Methodology Description
 - Revised MAAP Benchmarks to International Standard Problems and Other Approved Applications
 - Revised Input Parameters Including Revised Mass & Energy Releases for MSLB
 - Key Containment Analysis Results

FENOC
Professional Nuclear Consulting Corporation

Potential Impact on License Amendment Requests (LARs)

- Revised Containment Conversion LAR
 - Expect to Submit June 2004
 - Stand Alone, No Topical Report
- Best Estimate LOCA Analysis LAR
 - Withdraw & Resubmit After Revised Containment Conversion LAR is Submitted
- Planned Large Power Uprate LAR
 - Expect to Submit 1st Quarter 2004
- Implementation in 2006

FENOC
Fuel Element Nuclear Operating Company

NRC Staff Comments & Discussion

- Containment Analysis Methods
- Staff Review Approach

FENOC
Fuel Element Nuclear Operating Company