

May 10, 2000

MEMORANDUM TO: Cynthia A. Carpenter, Chief  
Generic Issues, Environmental, Financial  
and Rulemaking Branch  
Division of Regulatory Improvements Programs, NRR

FROM: Joseph L. Birmingham, Project Manager */RA Signed by JBirmingham/*  
Generic Issues, Environmental, Financial  
and Rulemaking Branch  
Division of Regulatory Improvements Programs, NRR

SUBJECT: SUMMARY OF MAY 2, 3, 4, 2000, MEETING WITH THE NUCLEAR  
ENERGY INSTITUTE (NEI) REGARDING CONTROL ROOM  
HABITABILITY AND NEI 99-03

On May 2, 3, 4, 2000, representatives of the Nuclear Energy Institute (NEI) Control Room Habitability (CRH) Task Force met with representatives of the Nuclear Regulatory Commission (NRC) at the NRC's offices in Rockville, Maryland. Meetings were held in sessions composed of the three CRH subgroups: the Systems Subgroup, the Analysis Subgroup, and the Design Basis Subgroup. Attachment 1 provides a list of attendees for each subgroup.

The Systems Subgroup held its meetings the morning of May 2 and 3. The group began by reviewing previously completed work and the status of action items. Much of the discussion centered around NRC comments on Appendix I, H and L, "Testing Options," Toxic Gas Assessments," and "Vulnerabilities." The topic of whether to perform tracer gas testing or component testing was discussed in great detail without reaching a final resolution. The NRC indicated that it believes tracer gas testing to be the only acceptable method for establishing a baseline of inleakage while the CRH task force believes that the best option depends on the plant design and testing conditions. Another issue was whether a positive pressure control room envelope is susceptible to inleakage other than through ductwork passing through the envelope. Also discussed were the appropriate criteria for toxic gas assessments. Additional details of the draft appendices are include in Attachment 2. A listing of CRH Systems Subgroup Active Actions is included in Attachment 3.

The Analysis Subgroup met on May 2 and 3. Topics discussed included the criteria to be considered for analysis of a fuel handling accident, the criteria to be considered for analysis of a main steam line break accident, and the criteria to be considered for determining the duration of an iodine spike accident. Although additional evaluation of the criteria needs to be performed, the NRC found the proposed criteria to be a good start for each of the scenarios. Handouts from the Analysis Subgroup meetings include the Agenda for the Subgroup meeting, CRH

Section 3.7 - Fuel Handling Accident. These documents are Attachments 4a, b, c, d and e, respectively.

The Design Basis Group met on May 4. Topics discussed include a qualitative approach for addressing smoke in the control room from sources external to the control room, whether the requirement to determine control room envelope integrity should be a technical specification with a value for in leakage, a program referenced by technical specifications or a program which exists as one of the plant's technical reference manuals. Industry indicated that, although a revised working draft of NEI 99-03 had been provided to the staff just before the May meeting, the three days of meetings had resulted in further revisions and industry would wait a couple of weeks before forwarding the next draft to the staff to allow the staff time to finish reviewing the draft already provided.

Handouts from the Design Basis Subgroup meetings are the staff's and industry's qualitative assessments for addressing external smoke entering the control room. These documents are included as Attachments 5 and 6 respectively.

Project No. 689

Attachments: As stated

cc w/att: See list

DISTRIBUTION: See list

**Package Accession No.: ML003722094**  
**Memo & Attachment 1 Accession No.: ML003722083**  
**Template NRR-106**  
**Attachment 2a to 6 Accession No.: ML003721372**  
**Template NRR-106**

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OFFICE	RGEB	RGEB	SC:SPSB
NAME	JBirmingham	SWest	JHayes
DATE	05/10/2000	05/10/2000	05/10/2000

C. Carpenter

2

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Distribution: Mtg. Summary w/ NEI on NEI 99-03 Dated

PUBLIC

SPSB R/F

RGEB R/F

OGC

ACRS

JHayes

EMail

SCollins/RZimmerman

BSheron

JJohnson

GHolahan/TCollins

RBarrett

MReinhart

JHannon

PBoehnert, ACRS

MTschiltz, EDO

DMatthews/SNewberry

CCarpenter

JBirmingham

PWen

SLaVie

MBlumberg

JLee

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**List of Systems Subgroup Attendees  
May 2 and 3, 2000**

<b>NAME</b>	<b>ORGANIZATION</b>
John Hayes	NRR/DSSA/SPSB
Hal Walker	NRR/DSSA/SPSB
John Segala	NRR/DSSA/SPSB
Mark Blumberg*	NRR/DSSA/SPSB
Joseph Birmingham	NRR/DRIP/RGEB
Paul Boehnert	NRC/ACRS
Steve Thomas	Northern States Power
Robert Burley	Duke Power
Jerry Kloecker	Virginia Power
Jim Riley	Nuclear Energy Institute
Patrick Bennett*	Amergen TMI
Kris Parczewski	NRR/DE/EMCB
Bernie Jwaszewski*	Vermont Yankee
John Wynn	Baltimore Gas & Electric
Brad Harvey	Duke Energy
Andy Persily#	National Institute of Standards & Tech.

# May 2 only, \* May 3 only

**List of Analysis Subgroup Attendees  
May 2 and 3, 2000**

<b>NAME</b>	<b>ORGANIZATION</b>
Mike Radvarsky	GPU Nuclear
Doug Gilliatt	Dominion Generation
Kurt Cozens	Nuclear Energy Institute
Ken Jha	Bechtel
Gopal Patel	NUCORE
Tom Mscisz	PECO Nuclear
Jim Metcalf	Polestar
David Black	Wisconsin Electric
Jerry Gryczkowski	Baltimore Gas & Electric
Steven P. Schultz	Duke Energy
John W. Cotton	Entergy
David M. Rothberg	NUCORE
R. Brad Harvey	Duke Engineering Services
J. Karl Warkentin	TXU Electric
Syed Ahmed	Virginia Power
Steve LaVie	NRC/DSSA/SPSB
Michelle Hart	NRC/DSSA/SPSB
Leta Brown	NRC/DSSA/SPSB
Mark Blumberg	NRC/DSSA/SPSB
Jack Hayes	NRC/DSSA/SPSB
Joe Birmingham	NRC/DRIP/RGEB

**List of Design Basis Subgroup Attendees  
May 4, 2000**

<b>NAME</b>	<b>ORGANIZATION</b>
Jack Hayes	NRC/NRR/SPSB
Jerry G. Sims	Southern Company
John Duffy	PSEG Nuclear
Mike Ruby	RG&E
Kurt Cozens	Nuclear Energy Institute
David J. Distel	PECON
Jerry Burford	Entergy
Karl Warkentin	TXU Electric
Mark Blumberg	NRC/NRR/SPSB
Steve LaVie	NRC/NRR/SPSB
Harold Walker	NRC/NRR/SPLB
Mark Henry Salley	NRC/NRR/SPLB
John Segala	NRC/NRR/SPLB
J. Bongarro	NRC/NRR/IOLB