

September 24, 1997

LICENSEE: COMMONWEALTH EDISON COMPANY  
FACILITIES: DRESDEN, UNITS 2 AND 3, AND QUAD CITIES, UNITS 1 AND 2  
SUBJECT: SUMMARY OF MEETING TO DISCUSS A PROPOSED LICENSE AMENDMENT CONCERNING CONTROL ROOM HABITABILITY

On March 13, 1997, a public meeting was held between the NRC staff and Commonwealth Edison Company (ComEd, the licensee) to discuss a potential license amendment concerning control room habitability. A list of attendees is provided as Enclosure 1.

The licensee discussed the background of the control room habitability calculations and the current configuration of the control rooms at both Dresden and Quad Cities. The licensee presented to the staff how the current design bases at both Dresden and Quad Cities meet the current regulatory requirements. The licensee also presented to the staff their proposed license amendment to change the calculational techniques used in determining the dose received by control operators following a design basis accident. Enclosure 2 is the handout material provided by the licensee.

Following the licensee's presentation, a question and answer period was held. The staff informed the licensee of the correct regulatory guides and section from the standard review plan to use in preparing the license amendment.

By letter dated May 19, 1997, the licensee submitted license amendments to revise the control room radiological assessment for both Dresden and Quad Cities. The staff is currently reviewing the license amendments.

Original Signed By:

John F. Stang, Senior Project Manager  
Project Directorate III-2  
Division of Reactor Projects - III/IV  
Office of Nuclear Reactor Regulation

Docket Nos. 50-237, 50-249, 50-254, 50-265

Enclosures: 1. List of Meeting Attendees  
2. Licensee Presentation

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UNITED STATES  
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

September 24, 1997

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A handwritten signature in cursive script, appearing to read "John F. Stang".

John F. Stang, Senior Project Manager  
Project Directorate III-2  
Division of Reactor Projects - III/IV  
Office of Nuclear Reactor Regulation

Docket Nos. 50-237, 50-249, 50-254, 50-265

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Dresden Nuclear Power Station  
Unit Nos. 2 and 3

cc:

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Downers Grove, Illinois 60515

LIST OF ATTENDEES

MARCH 13, 1997

	<u>NAME</u>	<u>COMPANY</u>	<u>TELEPHONE NO.</u>
1.	John Stang	NRC	301/415-1345
2.	Terry Riley	ComEd	x2714
3.	David Studley	ComEd-NUS	301/258-2437
4.	Jerry Lahti	ComEd	630/663-3858
5.	Bob Rybak	ComEd	630/663-7292
6.	Frank Spangenberg	ComEd	815/942-2920 x 3800
7.	Linda Weir	ComEd	815/942-2920 x 3109
8.	Peter Holland	ComEd	815/942-2920 x 2714
9.	Greg Tile	ComEd	309/654-2241 x 3186
10.	Bob Pulsifer	NRC	301/415-3016
11.	Harold Walker	NRC	301/415-2827
12.	John Segala	NRC	301/415-1858
13.	Jack Hayes	NRC	301/415-3167
14.	R. C. Olson	ComEd/NUS	301/258-2588
15.	R. A. Capra	NRC	301/415-1395

***Dresden and Quad Cities***  
***Control Room Habitability***  
***Amendment***

ComEd/NRC Meeting  
March 13, 1997

# *Objective of Meeting*

- ◆ Provide Clear Description of Approach
- ◆ Review Methodology
- ◆ Discuss Schedule
- ◆ Obtain Comments

# *Background*

- ◆ 1982 Control Room Habitability Calcs
- ◆ 1987 CREFS Initiation Times
- ◆ 1996 In-Leakage and dP Issues
- ◆ Other Issues



# *Objective of New Analyses*

- ◆ Close Out Regulatory Issues
- ◆ Obtain Additional Operating Margin
- ◆ Use Up to Date Methods

# Design Inputs

## RADIOLOGICAL RELEASE

PARAMETERS	CURRENT	PROPOSED
Power Level	100 %	102%
Source Terms	TID	60,000 MWD/MT
LOCA Release To Primary Containment Scrubbing	Reg Guide 1.3	Reg Guide 1.3
	NONE	SRP 6.5.5 (Bypass leakage not scrubbed SF of 5)
ESF Leakage	0	0
MSIV Leakage	11.5 SCFM per Line	Parametric
SBGTS % *	90%	95%#
Primary Containment Leakrate	1.6%/Day (Dresden) 1.0%/Day (Quad)	1.6%/Day + MSIV Leakage 1.0%/Day + MSIV Leakage
Mixing In Secondary Containment	100%	200% - SRP 6.5.3
SBGTS Flow	4000 SCFM	4400 SCFM
MSIV Leakage Holdup Treatment	Old Bechtel	BWROG

\* LOCA Analysis uses  
99%

# Requires Justification

# *Design Inputs (Continued)*

PARAMETERS	DOSE ASSESSMENT	
	CURRENT	PROPOSED
Control Room Chi/Q	30 min fumigation RG 1.3 Building Wake Model for ground release	Same
Site Boundary Chi/Q	30 min fumigation RG 1.3	Same
CREVS Flowrate	2000 SCFM	2000 SCFM +/- 10%
CREVS Efficiency	99%	Same
CREVS Initiation	Manual 40 min (Dresden) Manual 110 min (Quad Cities)	Same (Dresden) Parametric (Quad Cities)
CREVS Inleakage	263 SCFM (Dresden) 260 SCFM (Quad Cities)	Parametric Review
Recirculation Flow & Eff. Misc. Dose Conversion	N/A Murphy Campe ICRP-2	N/A Same ICRP-30

# *Licensing Approach*

- ◆ Submit as a Amendment (License or Tech Spec) Control Room Analyses
- ◆ Obtain Approval of Methodology
- ◆ Complete Remainder of Analyses
  - 1 Inch Instrument Line Break
  - Spent Fuel Bundle Drop
  - Technical Support Center et. al.
- ◆ Perform 50.59 Reviews and Proper Submittals

*Questions ???*

# *Conclusions*

- ◆ Close Out Long Standing Issues
- ◆ Use Up to Date Methods
- ◆ Submit Amendment in April
- ◆ Complete Remaining Analyses

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