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**Do not include proprietary materials.***

DATE OF MEETING

8.15.00

The attached document(s), which was/were handed out in this meeting, is/are to be placed in the public domain as soon as possible. The minutes of the meeting will be issued in the near future. Following are administrative details regarding this meeting:

Docket Number(s) 50-458

Plant/Facility Name River Bend Station

TAC Number(s) (if available) MA 8916

Reference Meeting Notice 8.4.00 (ML003737996)

Purpose of Meeting  
(copy from meeting notice) To discuss control room  
habitability, specifically, the  
dose calcs. performed by the  
licensee to meet 10CFR50, App. A  
GDC 19, control room

NAME OF PERSON WHO ISSUED MEETING NOTICE

Jeffrey F. Harold

TITLE

Project Manager

OFFICE

~~NRR~~ PDIV-1

DIVISION

NRR/DLPM

BRANCH

Distribution of this form and attachments:

Docket File/Central File

PUBLIC

J. F. Harold

DFOI





## **Proposed Changes to Fuel Building Tech Specs**

River Bend Station, NPF-47

Meeting with USNRC  
Rockville, Md.  
August 15, 2000



- **Introduction**
- **Objectives**
- **Background**
- **Scope of request**
- **Schedule**
- **Impact on Analyses**
- **Control Room In-leakage**
- **Conclusions**





## Overview

- Objectives of the Meeting
- Background
- Scope of Request
- Schedule



## Objectives

- To provide clarification of technical information supporting the proposed Technical Specification amendment on Fuel Building requirements.
- To reach consensus on acceptability of CR dose impacts.
- To determine if supplemental information needs to be submitted to support approval of the LAR.



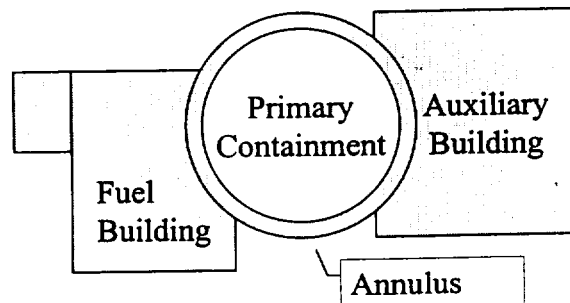


## **Entergy Background**

- The RBS request has licensing precedence.
  - Another BWR6 plant was originally licensed with FB excluded from secondary containment.
  - The RBS design is similar.
- RBS has a secondary containment composed of three structures:
  - Annulus, Auxiliary Building, and Fuel Building
  - Separate ventilation treatment system for the Fuel Building.



## **RBS Secondary Containment**







## Scope of Request

- Revise TS to exclude FB and FB filtration system requirements from secondary containment requirements.
- Revise TS to require the FB and FB filtration system to be OPERABLE only when handling recently irradiated fuel.



## Schedule

- **Resources committed to remove control rod blades this FY.**
  - RBS has not shipped any CR blades since operation.
  - Barnwell facility is phasing out current SE compact.
  - Contractual commitments are currently in progress.
  - CR blade removal is needed to accommodate dry fuel storage project.
  - Removal during an outage will extend shutdown.





## **Schedule (cont.)**

- Begin Fuel Building door maintenance and preparations 9/2000
- Begin cask transfer 11/2000
- Complete shipment 12/2000



## **Impact on Analyses**

- LOCA Dose Analysis
- FHA analysis





## Impact on DBA LOCA Analyses

Receptor Location	Thyroid (Rem)	Whole Body (Rem)	Skin (Rem)
<b>EAB</b>			
New Design Basis	82.96	5.49	
Current Design Basis with Power Uprate	(80.6)	(5.4)	
Dose Limit	300	25	N/A
<b>LPZ</b>			
New Design Basis	124.7	2.97	
Current Design Basis with Power Uprate	(121.6)	(2.95)	
Dose Limit	300	25	N/A
<b>Control Room</b>			
New Design Basis	8.17	0.46	9.55
Current Design Basis with Power Uprate	(7.02)	(0.46)	(9.53)
Dose Limit	30	5	30



## Contributors to CR Dose Changes

- New Conservative Assumptions
  - All gaseous annulus bypass leakage is conservatively assumed to be released to the environment (no credit for treatment in the FB or the Auxiliary Building).
  - The annulus vacuum is no longer credited during the first 24 seconds.
    - Significant impact since MCR filtration is not credited for first 66 sec.( assumes hi-rad actuation vs. LOCA).
  - The power uprate effects are also included in the analysis.





### Impact on CR Thyroid Dose (LOCA)

Analysis Version	CR Thyroid Dose with FB	CR Thyroid dose w/o FB	Change In Dose
Current (Amendment 111)	6.33 Rem	6.42 Rem	0.09 Rem
Current with power uprate	<b>7.02 Rem</b>	7.11 Rem	0.09 Rem
Power uprate with conservative PPP assumptions	8.09 Rem	<b>8.17 Rem</b>	0.08 Rem



### Impact on FHA Analyses

- The current bounding FHA analysis assumes that a FHA occurs in primary containment with airlocks open. (Amendment 85 as revised by Amendment 110).
- The FHA in the FB remains bounded and there is no impact on dose consequences.





## **Changes Relative to Available Margin**

- LOCA analysis
  - Whether using current analysis margin or margin available after power uprate, a 0.09 Rem increase is less than 1% of the available regulatory margin.
- FHA analysis
  - Since the current analysis for amendment 85/110 is bounding, there is no change to regulatory margin.



## **Control Room In-Leakage**





## **Control Room In-leakage**

- RBS analyses assume 10 cfm in-leakage.
- EOI has been following and participating in CR in-leakage issue resolution.
- RBS has a robust CR habitability design.
- Design and testing provide reasonable assurance that actual in-leakage is very low.



## **Design and Testing Conclusions**

**CR unfiltered in-leakage is very low and CR operators are adequately protected.**

- Inclusion of ductwork and HVAC equipment within the CRE boundary.
- In-leakage through the normal intake isolation valves is filtered.
- Routine TS surveillance pressure testing.
- Testing of adjacent compartments.
- Utilization of separate air intakes.
- Recirculation of 2000 cfm of CR air through the filters .





## Conclusions

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## Conclusions

- These requested changes should be found acceptable based on:
  - Defense-in-depth for radiological barriers are maintained.
  - The resulting doses continue to provide adequate margin within the acceptance criteria prescribed by 10 CFR 50 Appendix A, GDC-19 (control room dose) and 10 CFR 100 (offsite dose).
  - The increase in CR operator dose is minimal.
  - There is reasonable assurance that actual control room in-leakage is low and that adequate operator protection is provided.

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