

December 2, 1992

LICENSEE: Tennessee Valley Authority

FACILITY: Browns Ferry Nuclear Plant, Units 1, 2, and 3

SUBJECT: SUMMARY OF A MEETING WITH THE LICENSEE REGARDING EXPANDED  
INDIVIDUAL PLANT EXAMINATIONS

On October 15, 1992, representatives of the Tennessee Valley Authority (TVA) met with the NRC staff in Rockville, Maryland, to discuss TVA's plans for conducting an expanded Individual Plant Examination (IPE) for all three units of the Browns Ferry Nuclear Plant (BFN). The principal purpose of this meeting was to brief the staff on how TVA intended to address certain comments raised by the staff at a previous meeting held on May 28, 1992. These comments were subsequently documented in a letter to TVA dated July 22, 1992. This letter also provided the results of the staff's preliminary review of TVA's proposed approach for conducting a multi-unit IPE, as described in their submittal of February 7, 1992. In both the meeting and the July 22, 1992 letter, the staff's comments centered around certain assumptions inherent in TVA's proposed approach, such as: (1) operation of three units represents a bounding plant configuration, (2) ten selected shared systems are sufficient to scope all significant vulnerabilities, and (3) severe accident analysis is limited to two selected initiating events. TVA was requested to provide detailed justifications for these assumptions with their expanded IPE submittal, which is scheduled for the end of 1993.

Meeting attendees are listed in Enclosure 1. A copy of TVA's presentation handouts is provided as Enclosure 2. In general, TVA took this opportunity to discuss with the staff its interpretation of the comments documented in the July 22, 1992 letter and to present its anticipated response to these comments. By the end of the meeting, all parties involved concluded that a sufficient level of mutual understanding had been reached and that TVA appeared to be heading in the right direction.

Original signed by

Frederick J. Hebdon, Project Director  
Project Directorate II-4  
Division of Reactor Projects - 1/II, NRR

Enclosures:

1. Attendees
2. Agenda

cc w/enclosures:  
See next page

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NAME	MSanders:ms	TRoss:dw	JWilliams:ja	FHebdon
DATE	12/1/92	12/2/92	12/2/92	12/2/92

1  
12/01  
11

Browns Ferry Nuclear Plant

cc:

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J. Schiffgens

10-E-4

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ATTENDEESBROWNS FERRY EXPANDED INDIVIDUAL PLANT EXAMINATION MEETINGOCTOBER 15, 1992

<u>Name</u>	<u>Organization</u>
Thierry Ross	NRR/PDI-4
William Beckner	NRR/SPSB
John Schiffgens	NRR/SPSB
Ron Hernan	NRR/PDI-4
Paul L. J. Jlogg	Region II (Phone conferee)
Duke Wheeler	RES/SAIB
John Flack	RES/SAIB
Ed Rodrick	RES/SAIB
Greg Pierce	TVA/BN Licensing
Mike Hellums	TVA/Corporate Licensing
Henry Jones	TVA/BN Engineering
Richard McMahon	TVA/Corporate PRA

AGENDA FOR TVA/NRC MEETING  
OCTOBER 15, 1992  
EXPANDED INDIVIDUAL PLANT EXAMINATIONS FOR BROWNS FERRY

<u>TOPIC</u>	<u>SPOKESMAN</u>
BACKGROUND	G. D. PIERCE
NRC COMMENTS (NRC's 7/22/92 LETTER)	H. L. JONES
RESPONSE TO NRC COMMENTS	H. L. JONES
CONCLUSION	G. D. PIERCE



TVA/NRC MEETING  
OCTOBER 15, 1992  
EXPANDED INDIVIDUAL PLANT EXAMINATIONS FOR BROWNS FERRY

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TOPIC

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SPOKESMAN

BACKGROUND

G. D. PIERCE

TVA/NRC MEETING  
OCTOBER 15, 1992  
EXPANDED INDIVIDUAL PLANT EXAMINATIONS FOR BROWNS FERRY

TOPIC	SPOKESMAN
NRC COMMENTS (NRC's 7/22/92 LETTER)	H. L. JONES
<ul style="list-style-type: none"><li>• UNITS 1 AND 3 SUFFICIENTLY SIMILAR TO UNIT 2 SUCH THAT UNIT 2 IPE IS APPLICABLE TO UNITS 1 AND 3</li><li>• SIGNIFICANT VULNERABILITIES ENVELOPED BY THE ANALYSIS OF THE TEN SHARED SYSTEMS<ul style="list-style-type: none"><li>- SYSTEMATIC EVALUATION OF SHARED SYSTEMS AND BASIS FOR ELIMINATION</li></ul></li><li>• ANALYSIS LIMITED TO TWO INITIATING EVENTS<ul style="list-style-type: none"><li>- BASIS FOR ELIMINATING ANY INITIATORS</li></ul></li><li>• EFFECT OF SHUT DOWN UNITS ON OPERATING UNITS</li></ul>	

TVA/NRC MEETING  
OCTOBER 15, 1992  
EXPANDED INDIVIDUAL PLANT EXAMINATIONS FOR BROWNS FERRY

TOPIC	SPOKESMAN
RESPONSE TO NRC COMMENTS	H. L. JONES
COMMENT: UNITS 1 AND 3 SUFFICIENTLY SIMILAR TO UNIT 2 SUCH THAT UNIT 2 IPE IS APPLICABLE TO UNITS 1 AND 3	
RESPONSE:	
• ALL THREE UNITS HAVE A HIGH DEGREE OF SIMILARITY AND SHARE A COMMON FSAR	
• OVERALL REGULATORY FRAMEWORK FOR UNITS 1 AND 3 IS BASED ON SIMILARITY IN PLANT CONFIGURATION AND REQUIRED CORRECTIVE ACTIONS	
• DESIGN BASELINE PROGRAM FOR UNITS 1 AND 3 WILL VERIFY CRITERIA ARE ADEQUATE AND PROPERLY IMPLEMENTED PRIOR TO THE RESTART OF EACH UNIT	
• DIFFERENCES BETWEEN UNITS 1 AND 3 SYSTEMS AND SYSTEM MODELS IN THE IPE WILL BE EVALUATED, AND MODELED, IF SIGNIFICANT	
• PROCEDURAL CONTROLS	



TVA/NRC MEETING  
OCTOBER 15, 1992  
EXPANDED INDIVIDUAL PLANT EXAMINATIONS FOR BROWNS FERRY

TOPIC	SPOKESMAN
RESPONSE TO NRC COMMENTS	H. L. JONES
COMMENT: SIGNIFICANT VULNERABILITIES ENVELOPED BY THE ANALYSIS OF THE TEN SHARED SYSTEMS  (SYSTEMATIC EVALUATION OF ALL SHARED SYSTEMS AND BASIS FOR ELIMINATION)	
RESPONSE: • ENCLOSURE 2 TO TVA'S 2/07/92 LETTER:	
- PROVIDED CRITERIA USED FOR DESIGN OF SHARED SYSTEMS	
- IDENTIFIED SHARED SYSTEMS	
- DESCRIBED SHARED FUNCTIONS	
- JUSTIFIED THE ELIMINATION OF ANY SHARED SYSTEM	
• TOP SYSTEMS IN UNIT 2 IPE WILL BE MODELED	

TVA/NRC MEETING  
OCTOBER 15, 1992  
EXPANDED INDIVIDUAL PLANT EXAMINATIONS FOR BROWNS FERRY

TOPIC	SPOKESMAN
RESPONSE TO NRC COMMENTS	H. L. JONES
COMMENT: ANALYSIS LIMITED TO TWO INITIATING EVENTS (BASIS FOR ELIMINATING ANY INITIATORS)	
RESPONSE: • LOSS OF OFFSITE POWER AND LOSS OF PLANT AIR CONSIDERED REASONABLE AND REPRESENTATIVE INITIATING EVENTS	
- BOTH EVENTS DIRECTLY RESULT IN THE SHUTDOWN OF ALL THREE UNITS	
- LOSS OF OFFSITE POWER WAS LEADING INITIATING EVENT FOR UNIT 2 IPE (69 PERCENT OF CDF)	

TVA/NRC MEETING  
OCTOBER 15, 1992  
EXPANDED INDIVIDUAL PLANT EXAMINATIONS FOR BROWNS FERRY

<u>TOPIC</u>	<u>SPOKESMAN</u>
RESPONSE TO NRC COMMENTS	H. L. JONES
COMMENT: EFFECT OF SHUT DOWN UNITS ON OPERATING UNITS	
RESPONSE: • BFN IPE CONSIDERED EFFECTS OF UNITS 1 AND 3 SHUTDOWN AND UNIT 2 IN OPERATION	
• TVA'S 2/07/92 LETTER JUSTIFIED THREE UNIT OPERATION AS MOST LIMITING CASE	

TVA/NRC MEETING  
OCTOBER 15, 1992  
EXPANDED INDIVIDUAL PLANT EXAMINATIONS FOR BROWNS FERRY

TOPIC	SPOKESMAN
CONCLUSION	G. D. PIERCE
<ul style="list-style-type: none"><li>• EVALUATION OF SYSTEMS SHARED BETWEEN UNITS WAS NOT REQUIREMENT OF GENERIC LETTER 88-20</li><li>• NUREG-1335 STATES THAT ONLY POWER OPERATION AND HOT STANDBY NEED BE CONSIDERED FOR THE PURPOSES OF THE IPE</li><li>• BFN'S PROPOSAL IS PROACTIVE, RESPONSIVE TO NRC COMMENTS, AND IS A GOOD FAITH EFFORT</li></ul>	