



UNITED STATES  
ATOMIC ENERGY COMMISSION  
WASHINGTON, D.C. 20545

NOV 2 1973

*Docket*

DOCKET NOS.: 50-438 AND 50-439

APPLICANT : TENNESSEE VALLEY AUTHORITY (TVA)

FACILITY : BELLEFONTE NUCLEAR PLANT, UNITS 1 AND 2

SUMMARY OF MEETING HELD ON OCTOBER 4, 1973 TO DISCUSS MAIN STEAMLINE ISOLATION VALVES AND REGULATORY GUIDES 1.46, 1.48 AND 1.52

On October 4, 1973, representatives of TVA and B&W met with the Regulatory staff to discuss main steam line isolation valves and Regulatory Guides 1.46, 1.48 and 1.52. The discussion included areas of interest to the Mechanical Engineering Branch, the Auxiliary and Power Conversion Systems Branch and the Accident Analysis Branch.

A list of attendees is enclosed.

Significant points discussed are summarized below:

1. Main Steam Line Isolation Valves

The present Bellefonte main steam isolation design consists of a motor operated isolation valve and a downstream check valve to prevent reverse flow. The staff discussed the results of recent studies concerning large "flapper" type check valves which have produced problems in a few operating plants. Other design approaches which do not utilize check valves were discussed. TVA indicated that they were reconsidering the design for isolating the steam lines and would inform us of their decision on valve design if different from that in the PSAR.

2. Discussion of Regulatory Guide 1.48, "Design Limits and Loading Combinations for Seismic Category I Fluid System Components"

The major area of discussion of Regulatory Guide 1.48 involved the operability assurance program for active safety-related components. The nature of tests and test facilities which might be involved in such a program was discussed. In addition, the degree to which analysis should be used in assuring operability was discussed. The precise nature of the operability assurance was described as depending upon the particular component and effects

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(normal operation, accidents, earthquake, etc.) considered.

3. Discussion of Regulatory Guide 1.46, "Protection Against Pipe Whip Inside Containment"

This discussion was brief and centered around pipe whip dynamic analysis as described in Enclosure 3 of our September 14, 1973 request for additional information and interpretation of Regulatory Guide 1.46.

4. Discussion of Regulatory Guide 1.52, "Design, Testing and Maintenance Criteria for Atmosphere Cleanup System Air Filtration and Adsorption Units of Light-Water-Cooled Nuclear Power Plants"

The discussion concerning Regulatory Guide 1.52 took place apart from the main body of the meeting. The areas of interest to TVA included the suggested limit on size of filter trains, the need for replacement of an intact train, the need for demisters and heaters for control room units and the fire inhibit system.

TVA's position on the three Regulatory guides will be included in their responses to recent staff requests for additional information on these guides.



Don K. Davis, Project Manager  
Pressurized Water Reactors  
Branch No. 4  
Directorate of Licensing

Enclosure:  
List of Attendees

ATTENDANCE LIST

Atomic Energy Commission

D. K. Davis  
R. W. Klecker\*  
J. Knight  
C. Long\*  
R. C. DeYoung\*  
H. Brammer  
S. Hou  
T. Cox\*  
R. Zavadoski\*\*

Tennessee Valley Authority

C. Michelson  
P. Evans  
G. German  
J. Williams  
S. Thickman  
T. Spink  
I. E. Grant  
J. Belk  
J. Bradley

Babcock & Wilcox

T. Walton  
J. Anderson  
J. McFarland  
B. Brynda  
H. Farris

\*Part-time attendance

\*\*Participated only in discussion of Regulatory Guide 1.52