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 ELTANILA, F. Office of Nuclear Reactor Regulation, Director

SUBJECT: Corrected ltr superseding previous ltr re "Chugging Load-  
 Revised Definition & Application Methodology for Mark II  
 Containments (based on 4TCO test results)," 810721 technical  
 rept.

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**Burns and Roe, Inc.**

185 Crossways Park Drive ■ Woodbury, New York 11797 ■ Telephone (516) 677- 4000

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**Subject:** W. O. 3900  
Washington Public Power Supply System  
WNP-2  
NRC Request for Burns and Roe Documents  
Referenced in the "Chugging Report"

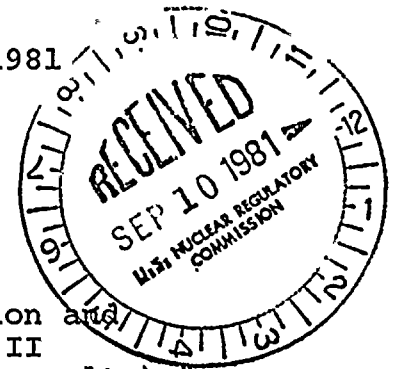
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Oradell, New Jersey 07649  
(201) 265-2000

September 1, 1981

U. S. Nuclear Regulatory Commission  
Office of Nuclear Reactor Regulation  
Washington, D. C. 20555

Attention: Mr. F. Eltawila

Reference: (a) "Chugging Load - Revised Definition and Application Methodology for Mark II Containments (based on 4TCO test results), Technical Report, July 21, 1981, Prepared by Burns and Roe, Inc., for Application to WPPSS-WNP 2."



Gentlemen:

In conversation with Mr. E. Fredenburg of the Washington Public Power Supply System, your office requested copies of two Burns and Roe documents identified as References 17 and 19 in Reference (a) above.

The Reference 17 document presents results of a study performed by Burns and Roe for General Electric Company. We have initiated efforts to obtain permission from General Electric Company to submit the Reference 17 document to the Commission. In the meanwhile, you may wish to note that this study examined in more detail the improved modeling techniques and structural analysis methods presented in Chapter 7 of our Report entitled "SRV Loads - Improved Definition and Application Methodology for Mark II Containments" (Reference 11 of the Reference (a) report) and provided additional comparisons of predicted responses with measured responses. The conclusion reached in Section 7.5 of this document namely, "The agreement between the measured and predicted building response is quite good in terms of both amplitude and frequency" is reinforced by the Referenced 17 study.

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U. S. Nuclear Regulatory Commission

September 1, 1981

The Reference 19 document presents results of Fukushima Dai-Ni Unit 3 containment response analysis to the LOCA steam condensation loads performed by Burns and Roe for the Toshiba Corporation. It is referred to in the footnote on page 62 of the Reference (a) report in relation to the justification of this 1.17 factor applied to JAERI data shown in Figure 5-6 of the Reference (a) report. As such, the entire Reference 19 document is not needed to review the Reference (a) report. To assist you in your review process, instead of the entire Reference 19 document, the complete information required for justification of the 1.17 factor is provided in the attachment to this letter entitled, "Reduction Ratio for Pool Boundary Pressures to Account for Reduction in Number of Vents from Seven to Six in a 20° Segment of the Pool."

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1

Very truly yours,

*L. Smith*

JJV/IL/dr  
Attachment - 4 copies

John J. Verderber  
Project Engineering Manager

cc: Messrs. C. J. Andersen - NRC - 1  
R. Aulick - NRC - 1  
B. A. Holmberg - WPPSS - 1  
E. Fredenburg - WPPSS - 1

1 - Revised as shown

Please find the attached letter  
with minor editorial corrections  
as noted.

This letter is to supersede the  
previous one.

Sorry for the inconvenience.

Thank you